

Appendix B

WCDMA Band II & V



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

Band	Channel	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
Band II	9262	23.28	21.18	33.00	PASS
Band II	9400	23.26	21.16	33.00	PASS
Band II	9538	23.16	21.06	33.00	PASS

Band	Channel	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band V	4132	23.17	17.42	38.45	PASS
Band V	4182	23.37	17.62	38.45	PASS
Band V	4233	23.28	17.53	38.45	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBd]$$

$$EIRP [dBm] = \text{Conducted Power} [dBm] + \text{Gain} [dBi]$$



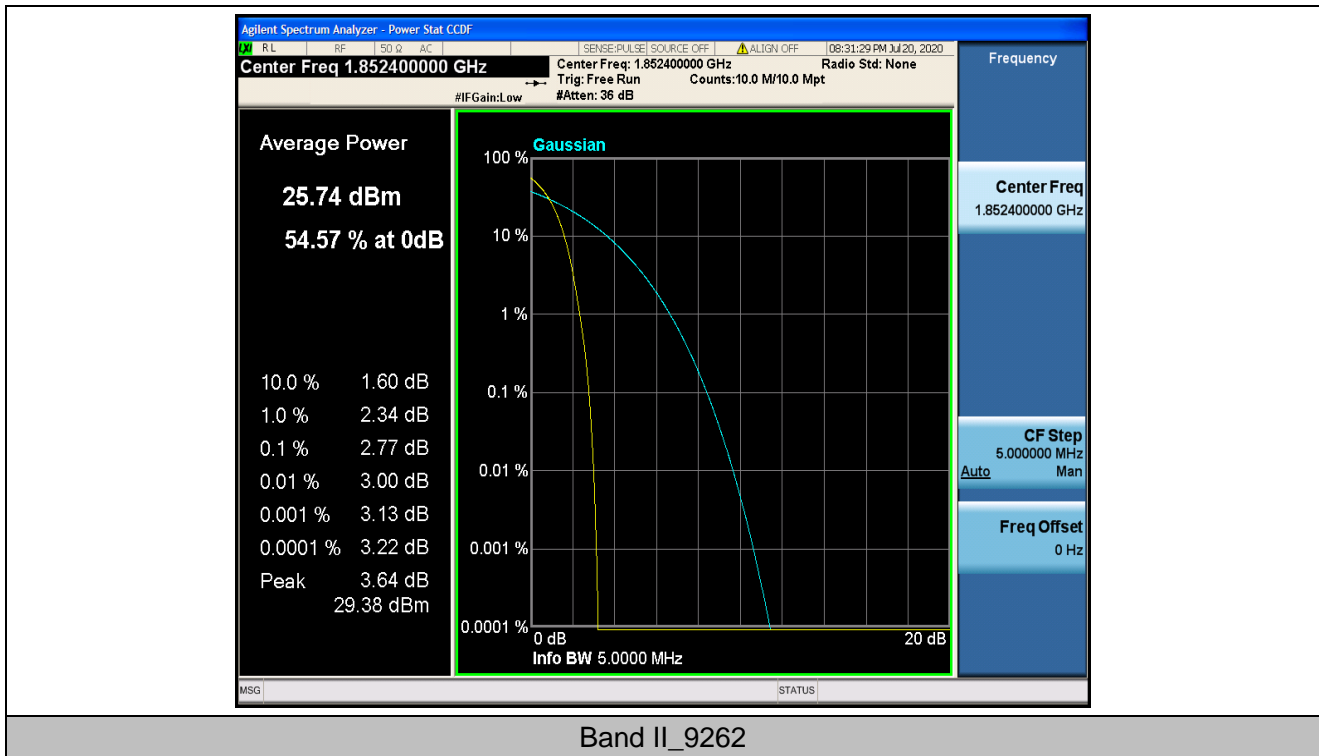
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

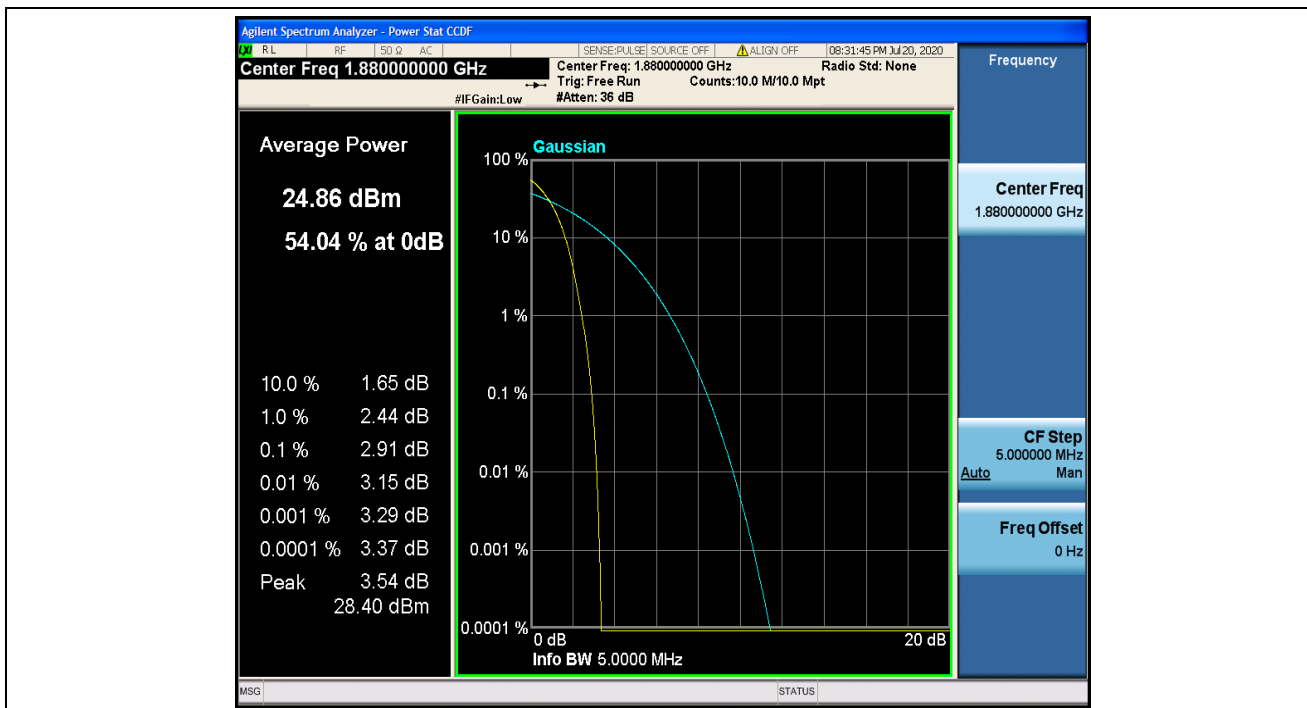
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	2.77	13	PASS
Band II	9400	2.91	13	PASS
Band II	9538	2.72	13	PASS
Band V	4132	3.18	13	PASS
Band V	4182	3.18	13	PASS
Band V	4233	3.15	13	PASS

2.2. Test Plots

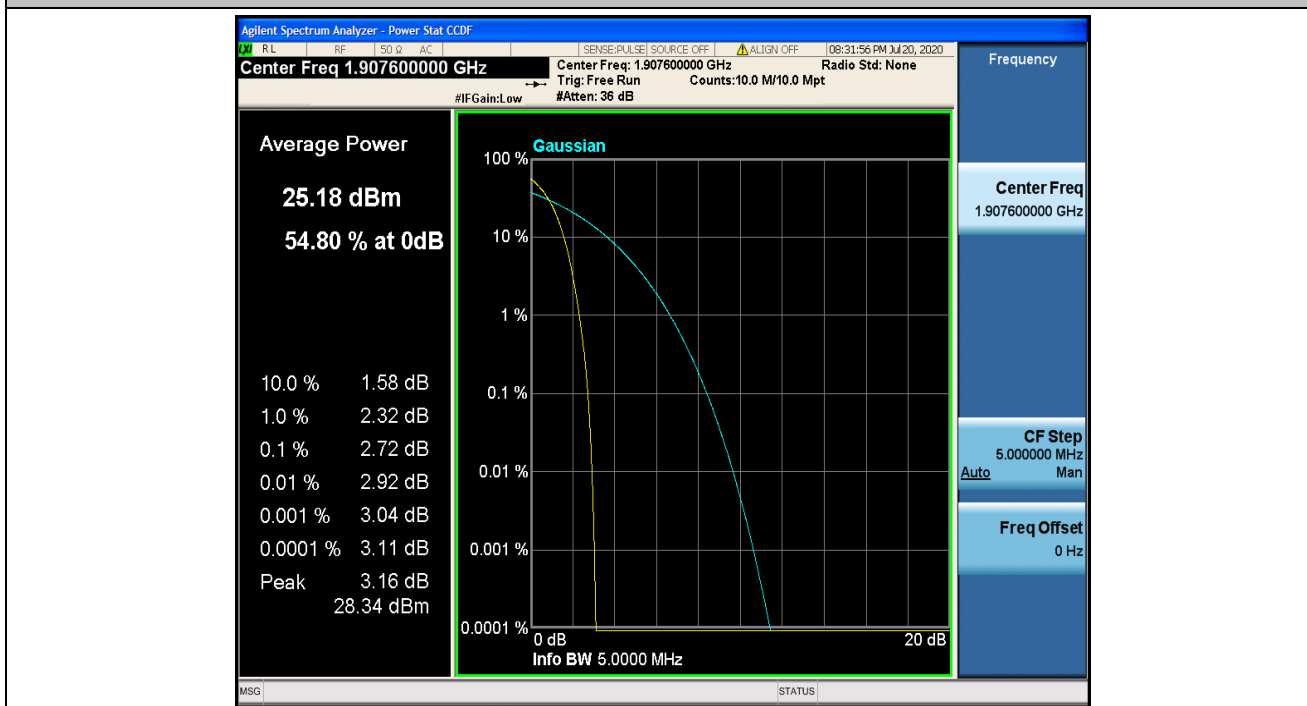


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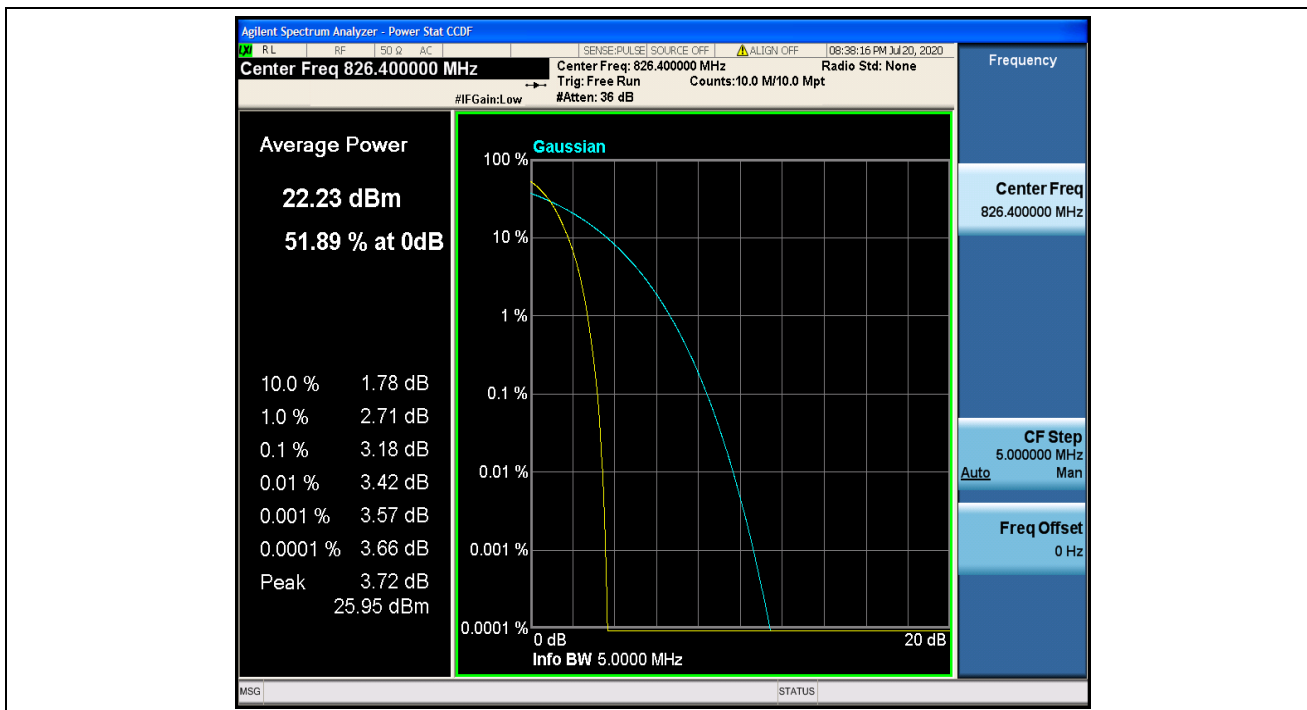
Band II_9400



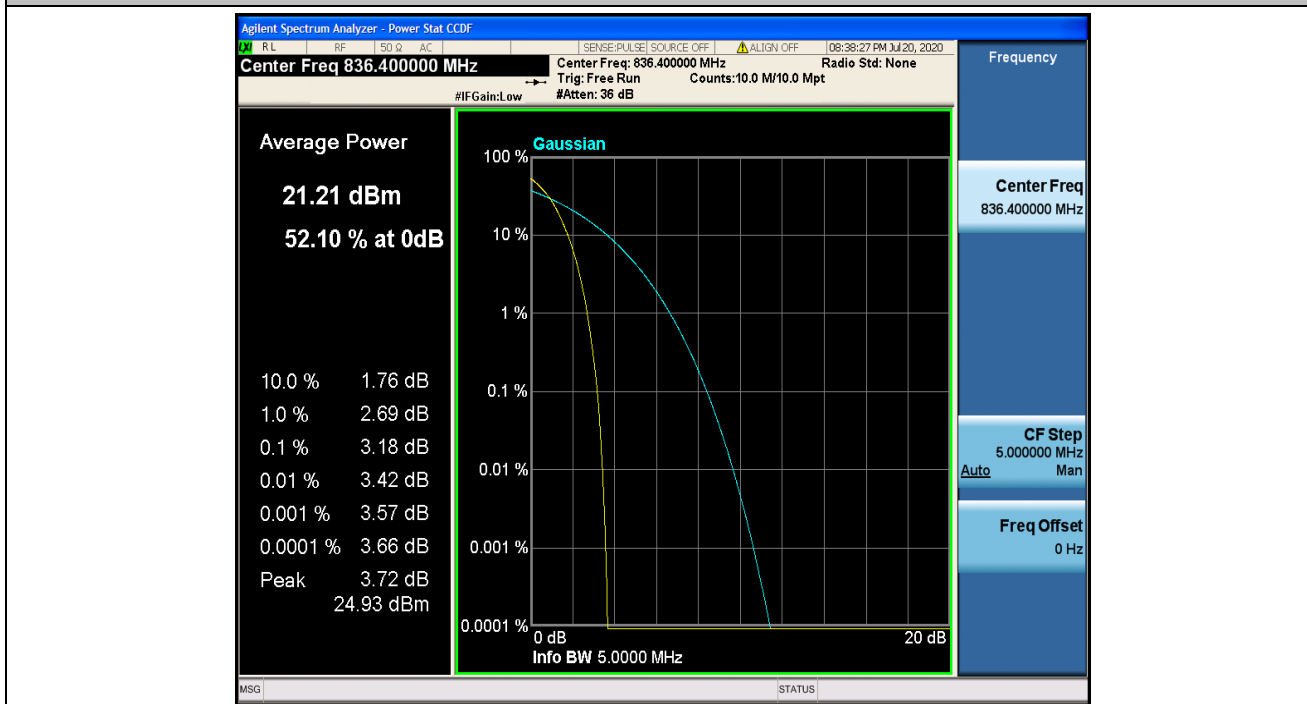
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Band V_4132



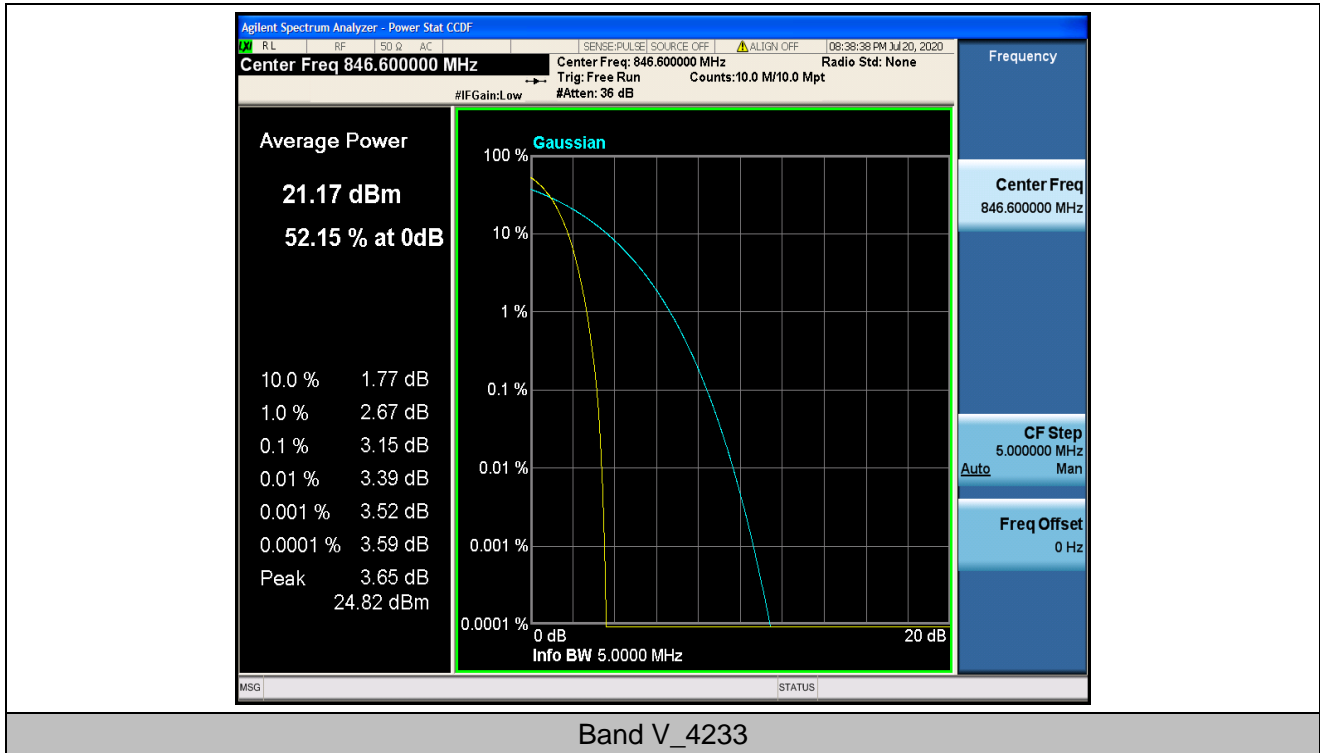
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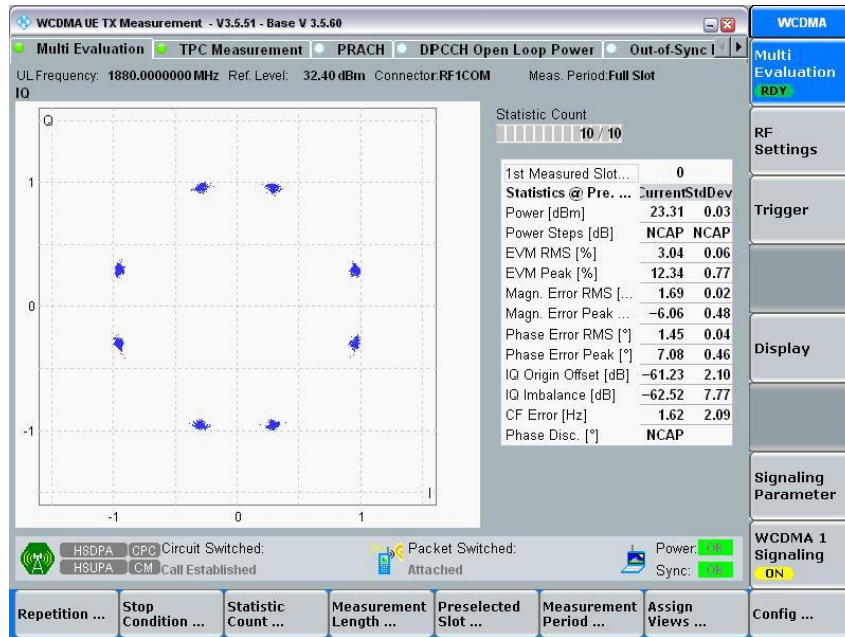
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3. Modulation Characteristics

3.1. Test Band = WCDMA Band II

3.1.1. Test Mode = UMTS/TM1

3.1.1.1. Test Channel = MCH



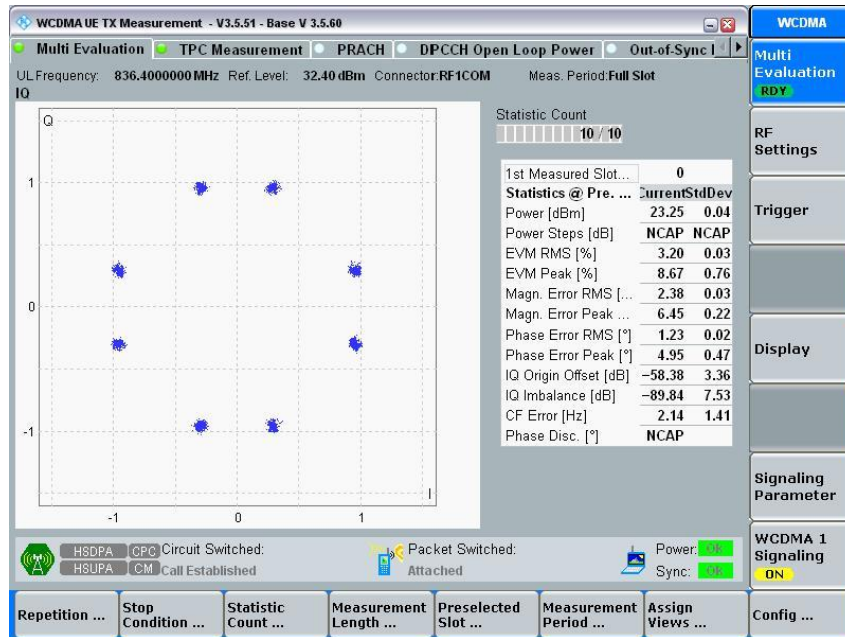
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3.2. Test Band = WCDMA Band V

3.2.1. Test Mode = UMTS/TM1

3.2.1.1. Test Channel = MCH



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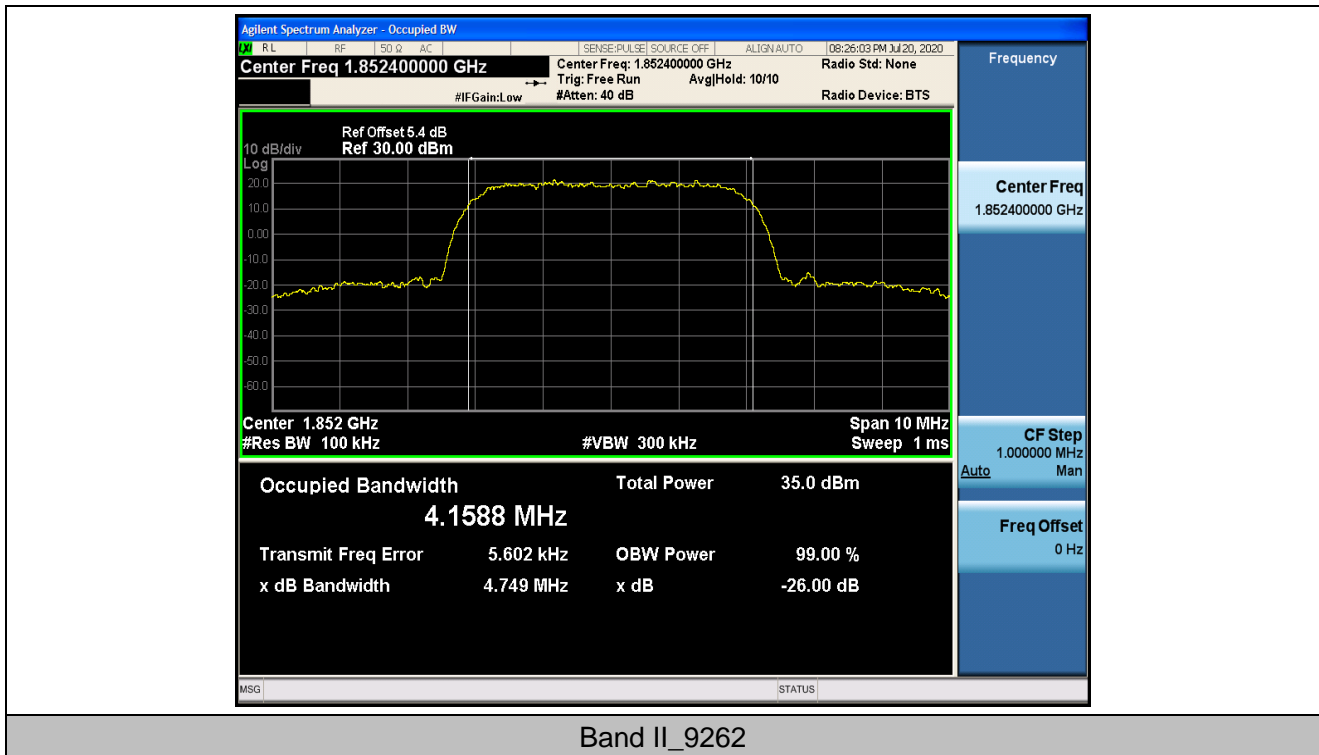
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

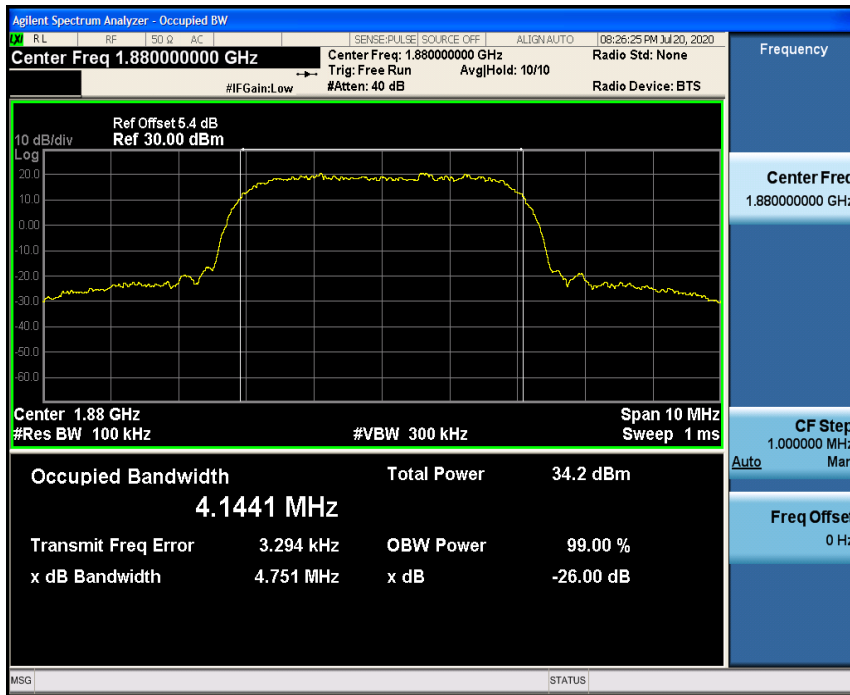
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band II	9262	4158.8	4749	---	PASS
Band II	9400	4144.1	4751	---	PASS
Band II	9538	4142.1	4742	---	PASS
Band V	4132	4126.6	4699	---	PASS
Band V	4182	4124.3	4715	---	PASS
Band V	4233	4153.7	4721	---	PASS

4.2. Test Plots

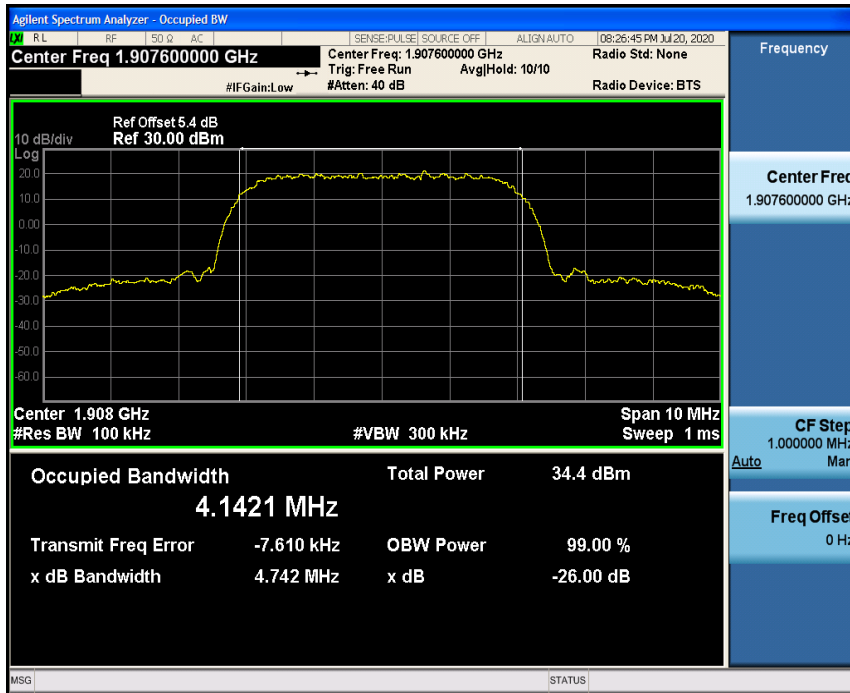


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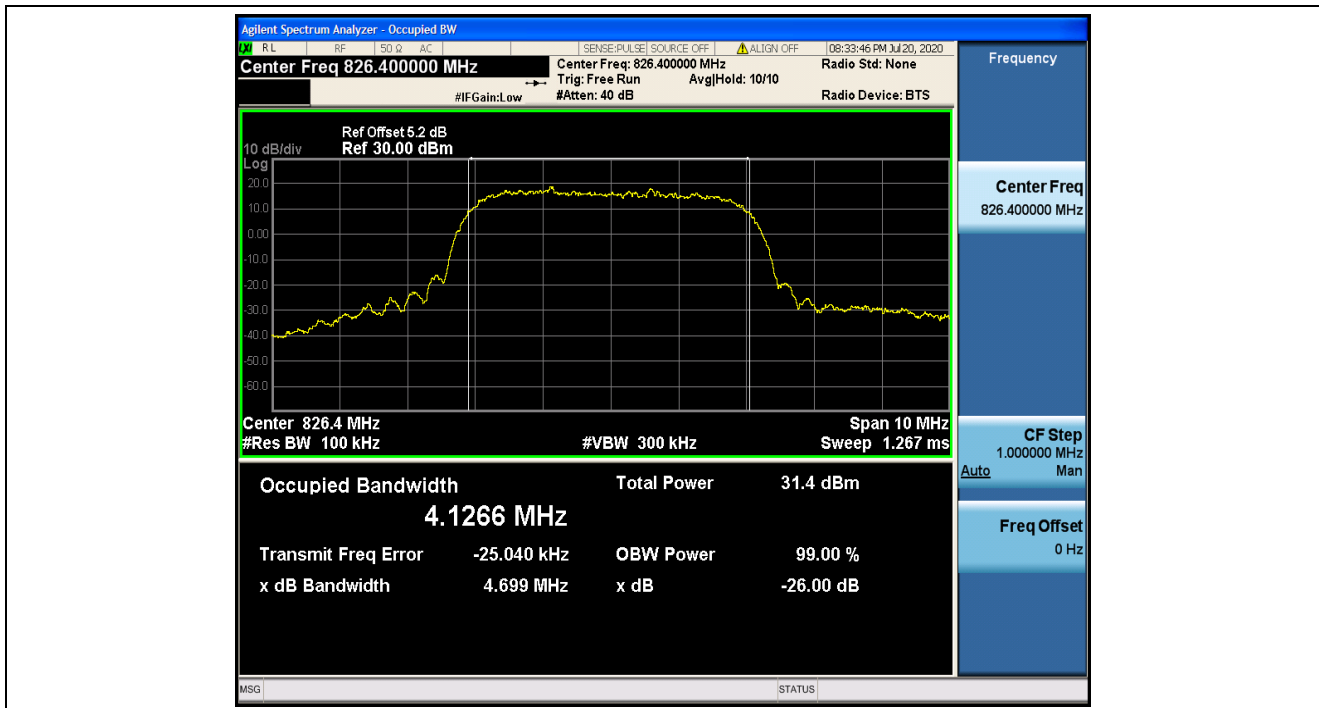
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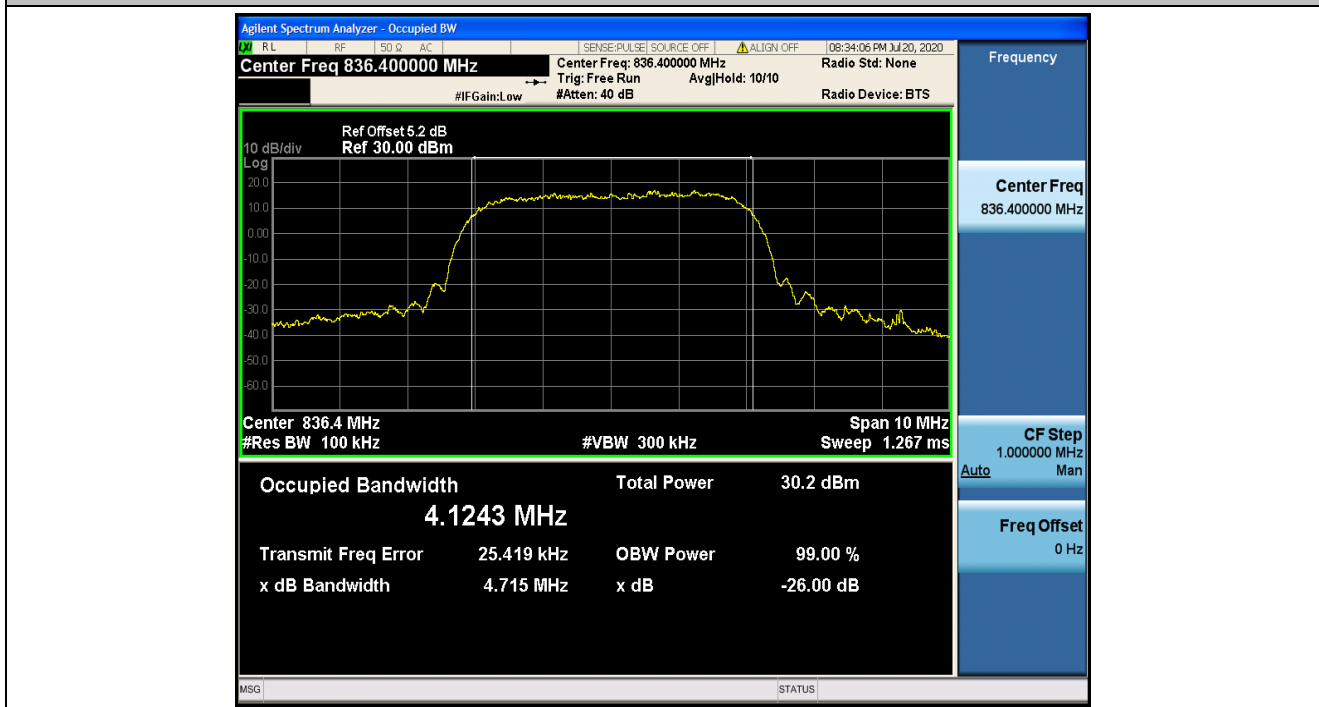
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Band V_4132



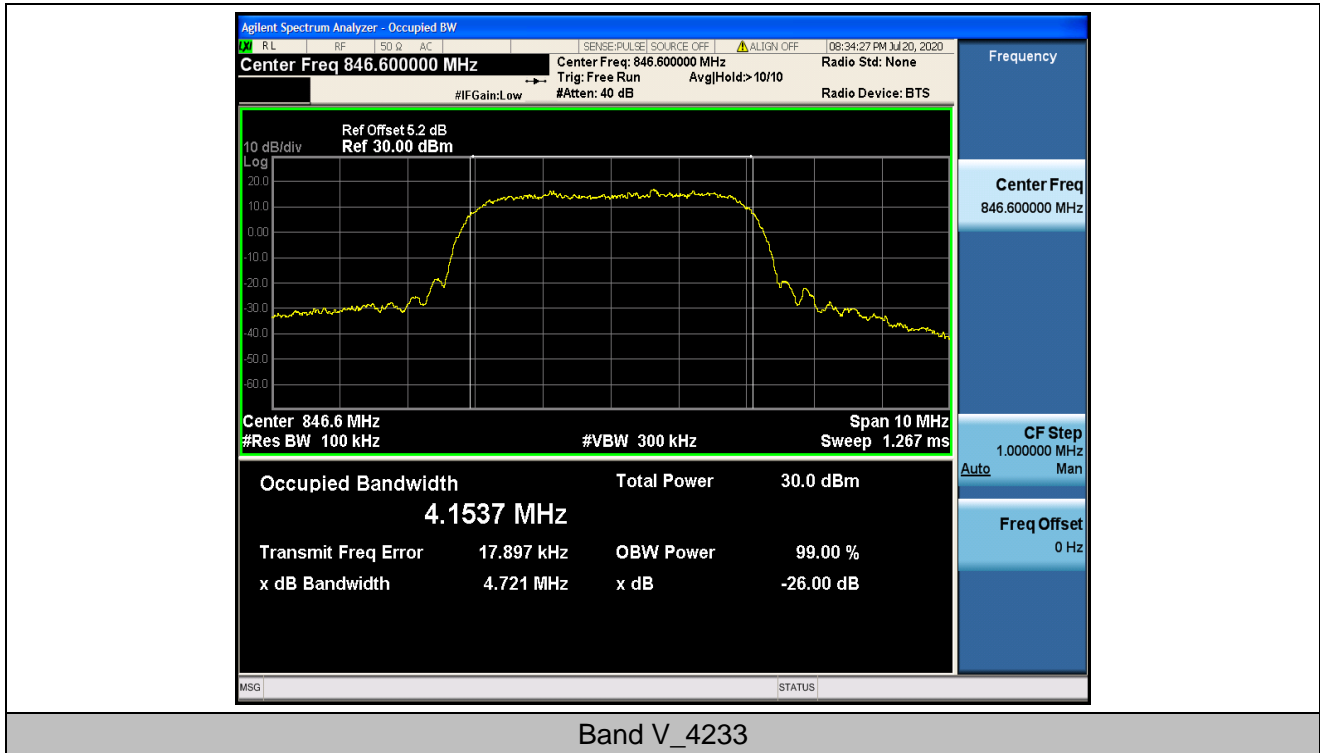
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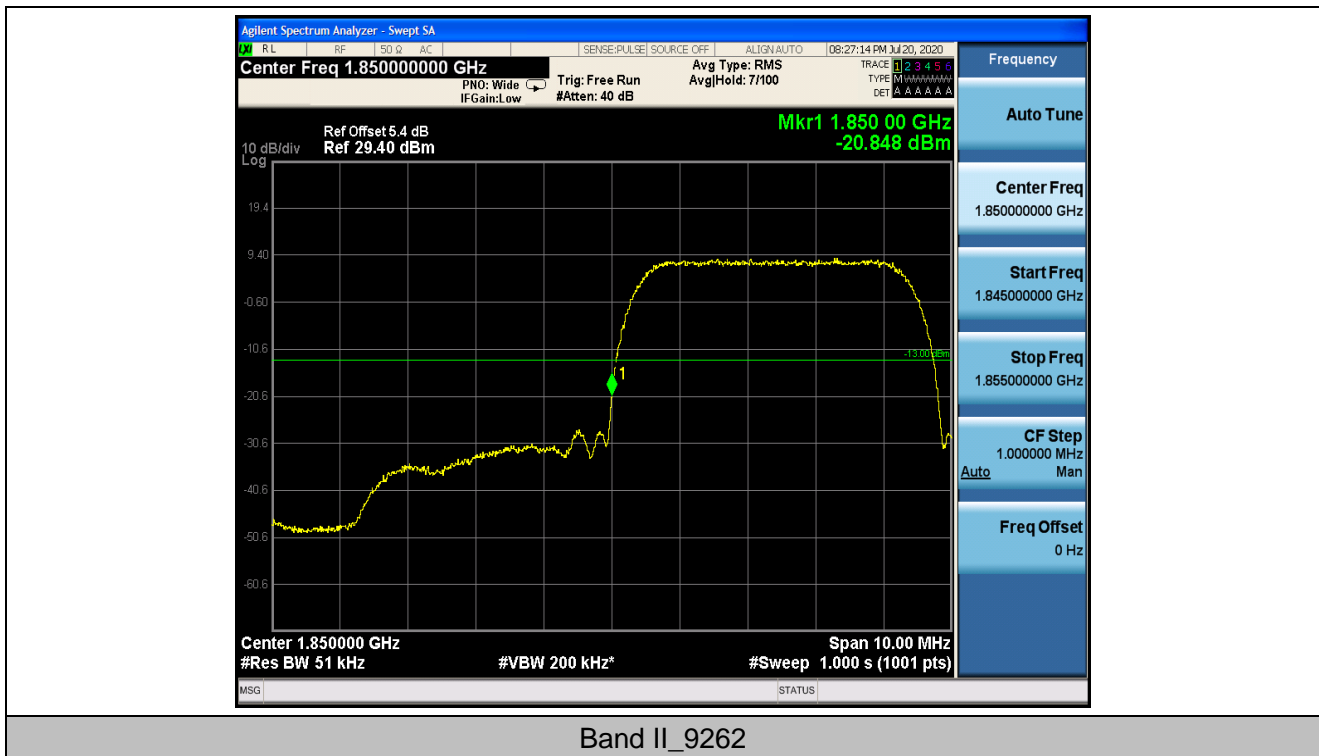
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5. Band Edge Compliance

5.1. Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	-20.85	-13	PASS
Band II	9538	-21.00	-13	PASS
Band V	4132	-26.45	-13	PASS
Band V	4233	-27.09	-13	PASS

5.2. Test Plots



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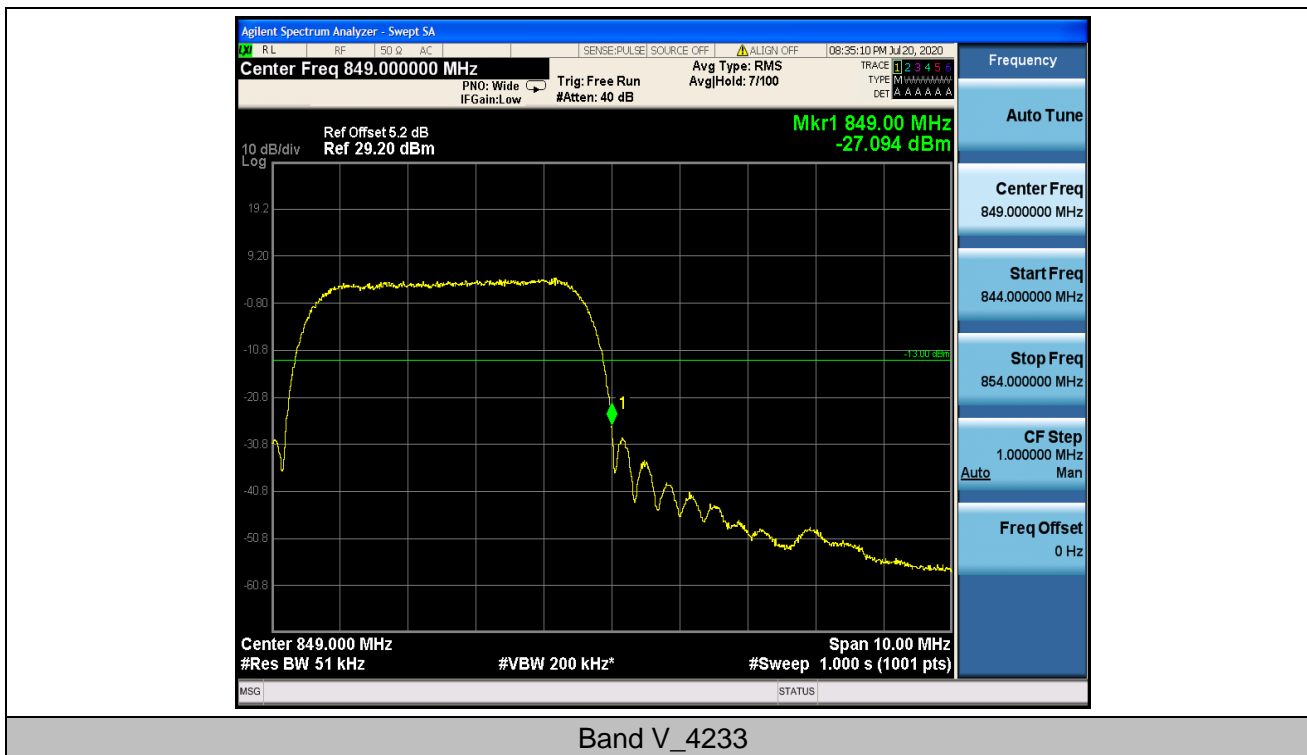


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6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

6.1. Test Result

Band	Channel	Frequency Rang(Mhz)	Value(dBm)	Limit(dBm)	Verdict
Band II	9262	0.009~0.15	-45.87	-43	PASS
Band II	9262	0.15~30	-45.22	-33	PASS
Band II	9262	30~1000	-29.23	-13	PASS
Band II	9262	1000~7000	-35.61	-13	PASS
Band II	9262	7000~13600	-45.45	-13	PASS
Band II	9262	13600~20000	-42.02	-13	PASS
Band II	9400	0.009~0.15	-46.54	-43	PASS
Band II	9400	0.15~30	-42.74	-33	PASS
Band II	9400	30~1000	-31.15	-13	PASS
Band II	9400	1000~7000	-35.72	-13	PASS
Band II	9400	7000~13600	-45.60	-13	PASS
Band II	9400	13600~20000	-42.44	-13	PASS
Band II	9538	0.009~0.15	-46.60	-43	PASS
Band II	9538	0.15~30	-42.94	-33	PASS
Band II	9538	30~1000	-29.10	-13	PASS
Band II	9538	1000~7000	-35.89	-13	PASS
Band II	9538	7000~13600	-45.27	-13	PASS
Band II	9538	13600~20000	-41.99	-13	PASS
Band V	4132	0.009~0.15	-45.77	-33	PASS
Band V	4132	0.15~30	-43.74	-23	PASS
Band V	4132	30~1000	-30.00	-13	PASS
Band V	4132	1000~9000	-35.97	-13	PASS
Band V	4182	0.009~0.15	-45.89	-33	PASS
Band V	4182	0.15~30	-42.26	-23	PASS
Band V	4182	30~1000	-30.84	-13	PASS
Band V	4182	1000~9000	-36.80	-13	PASS
Band V	4233	0.009~0.15	-45.28	-33	PASS



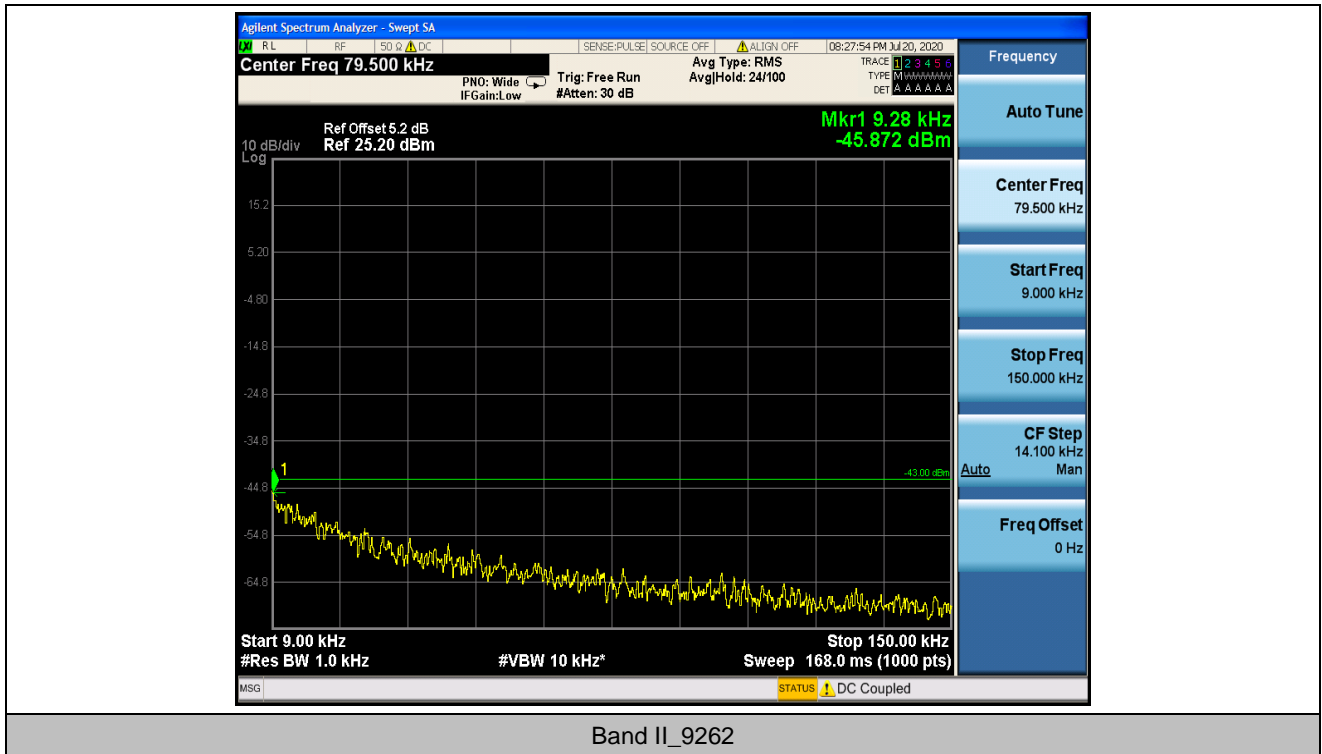
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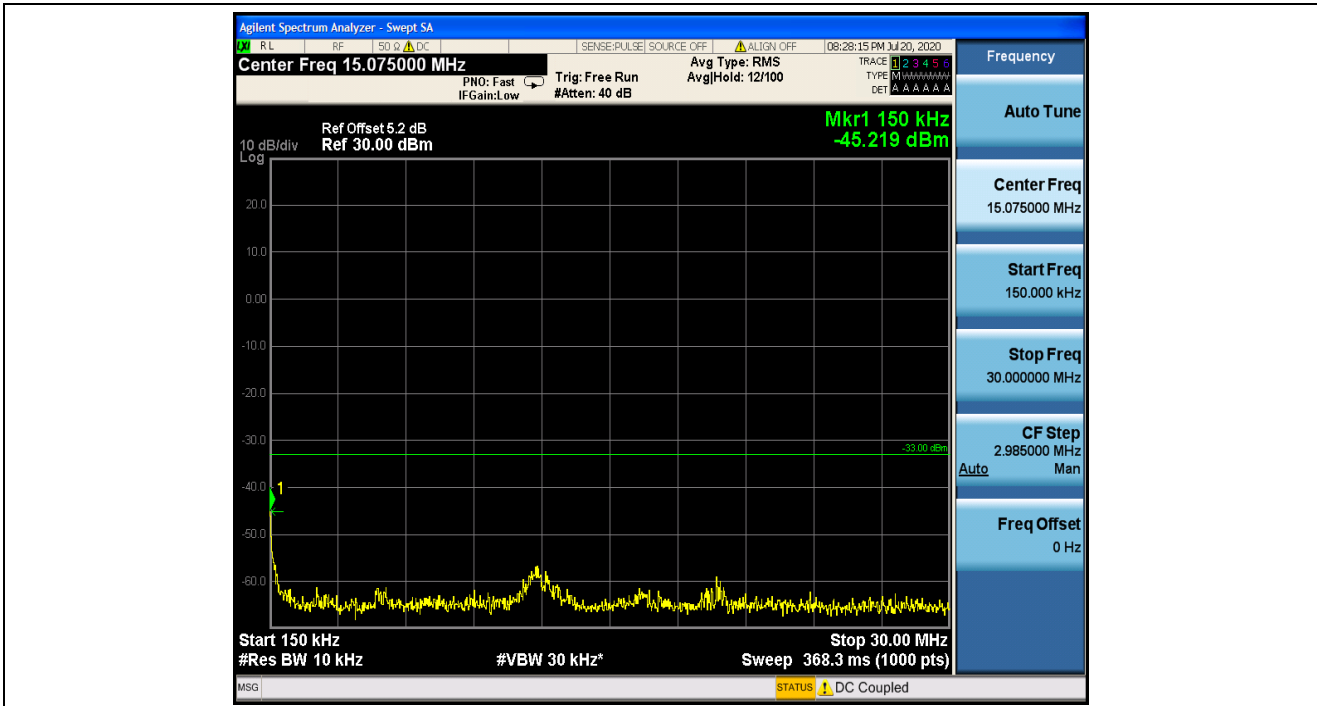
Band V	4233	0.15~30	-41.76	-23	PASS
Band V	4233	30~1000	-30.50	-13	PASS
Band V	4233	1000~9000	-35.88	-13	PASS

6.2. Test Plots

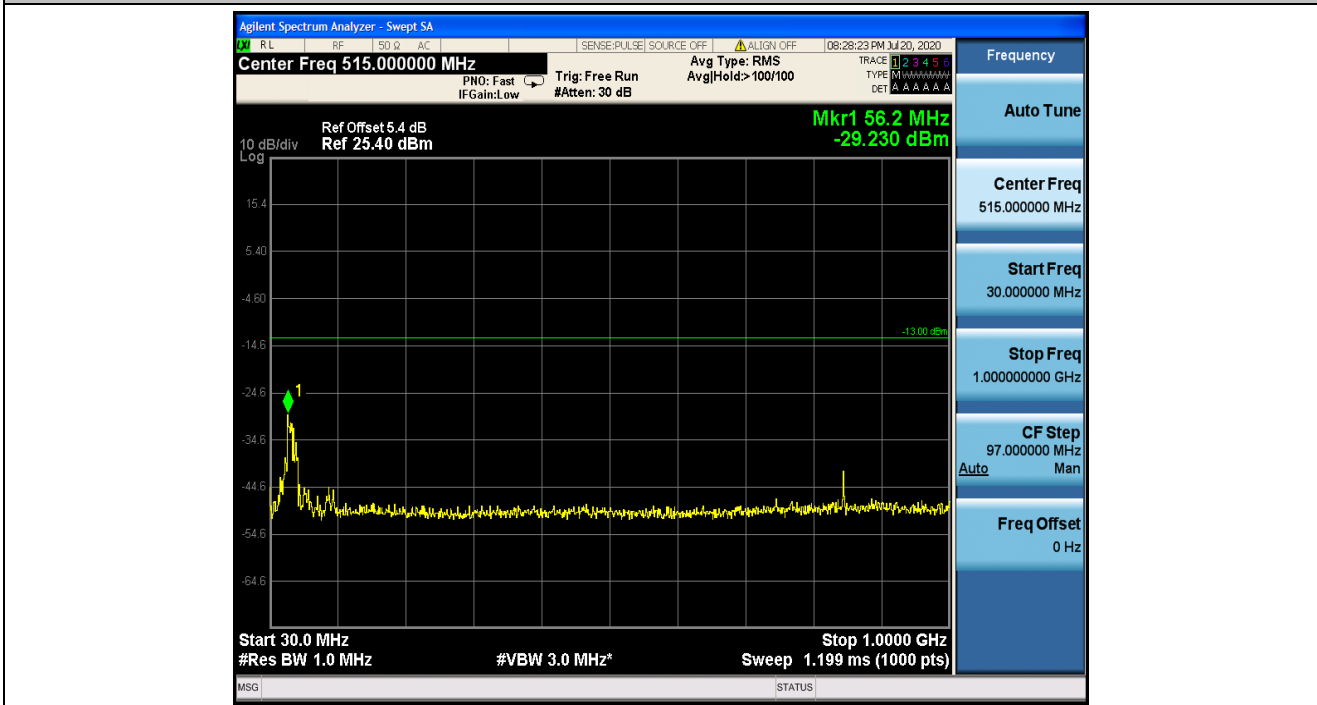


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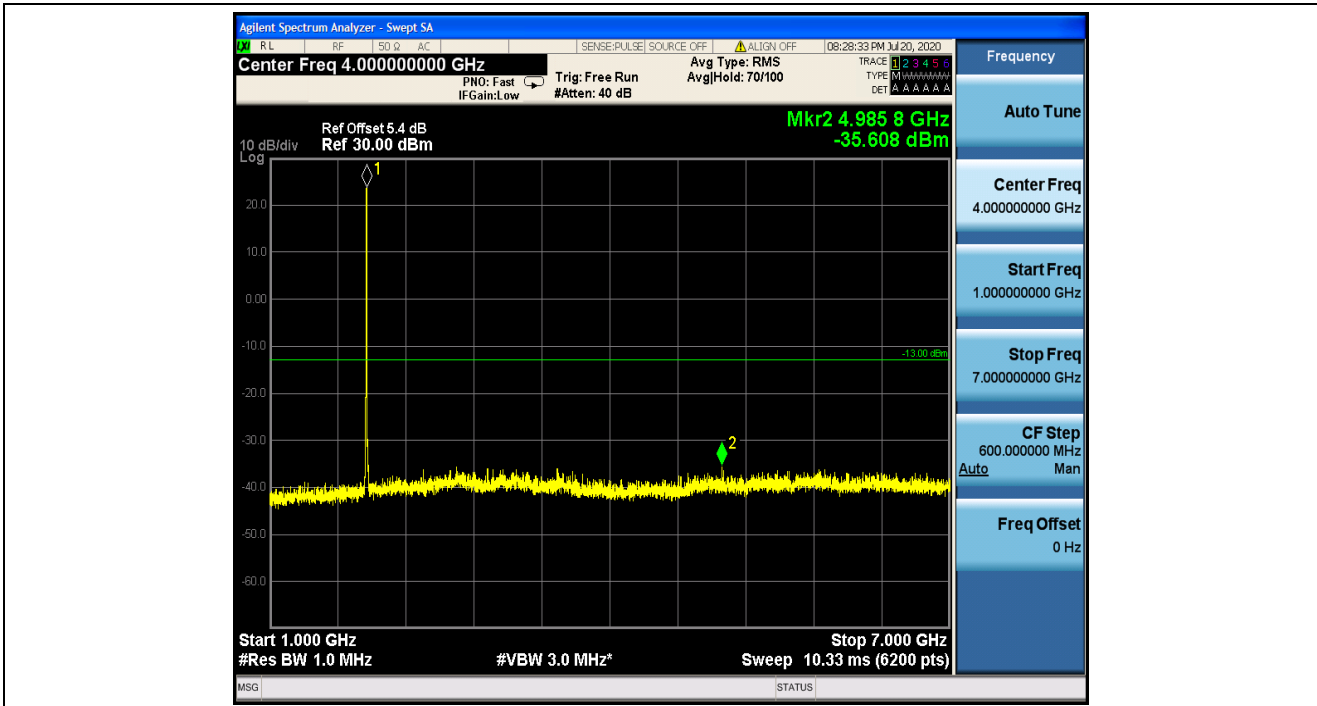
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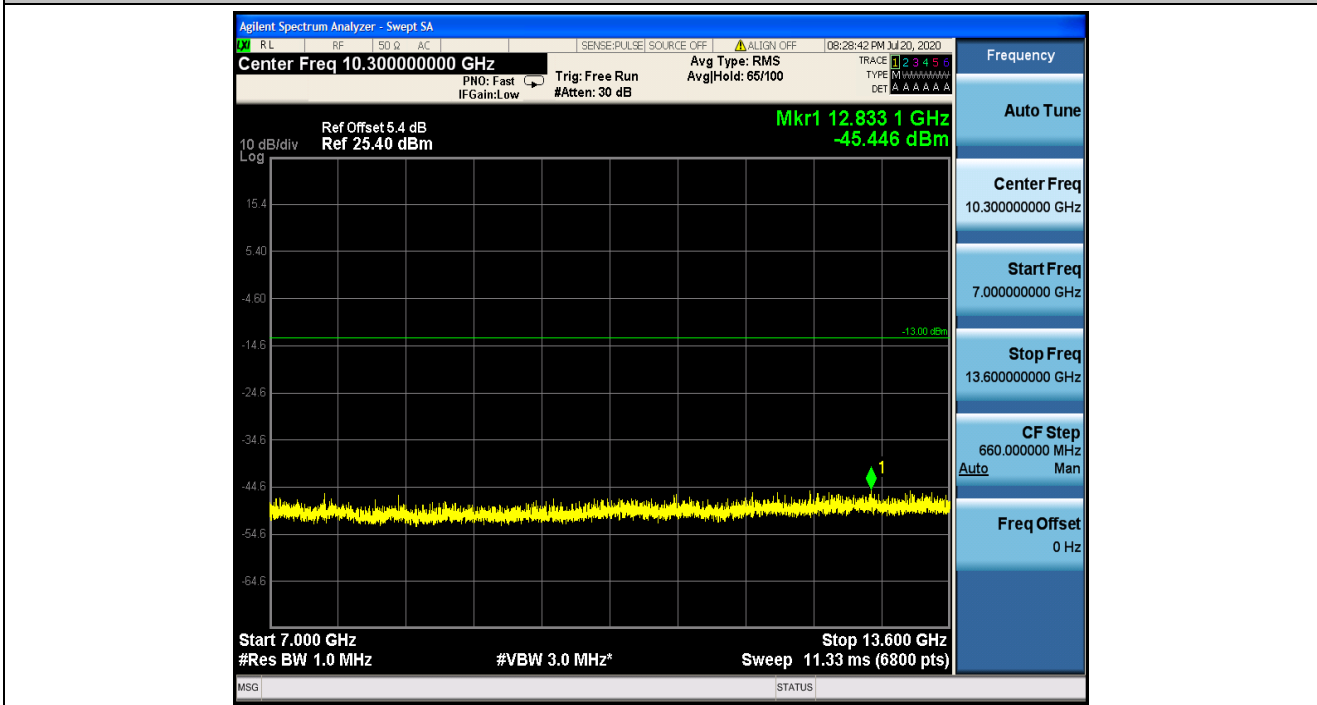
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Band II_9262

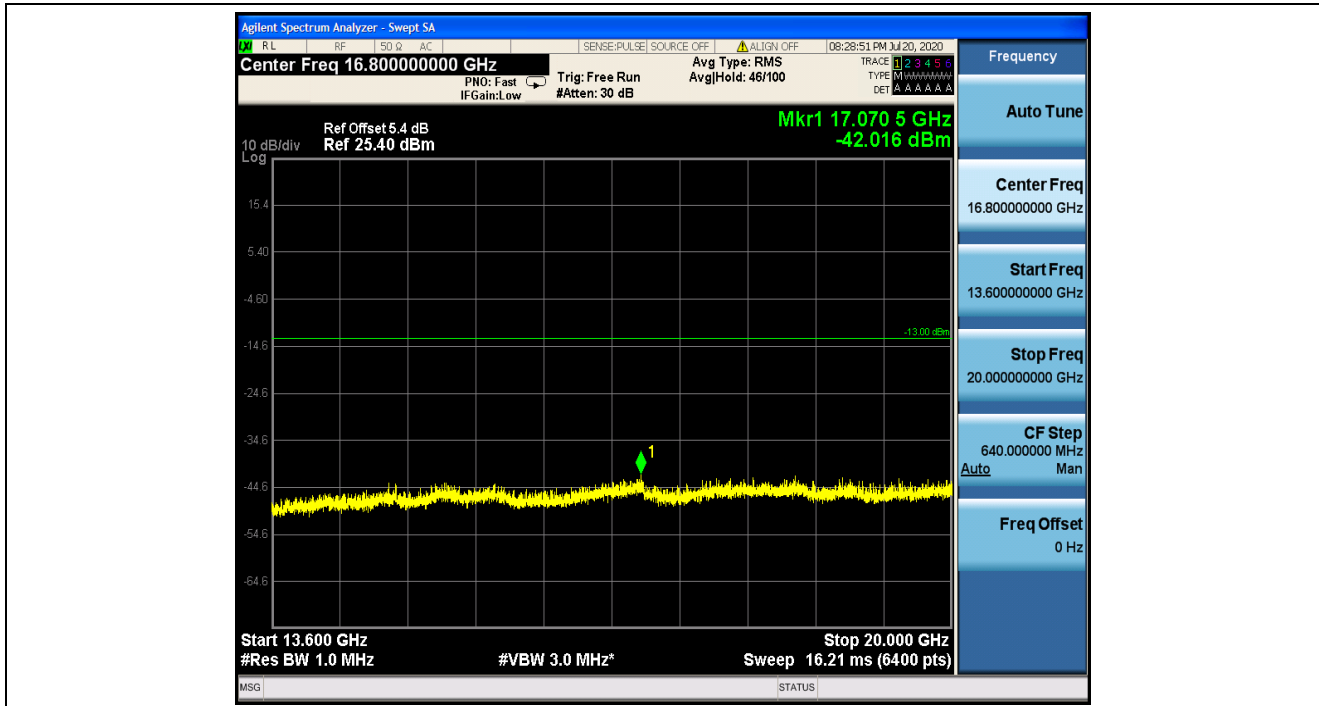


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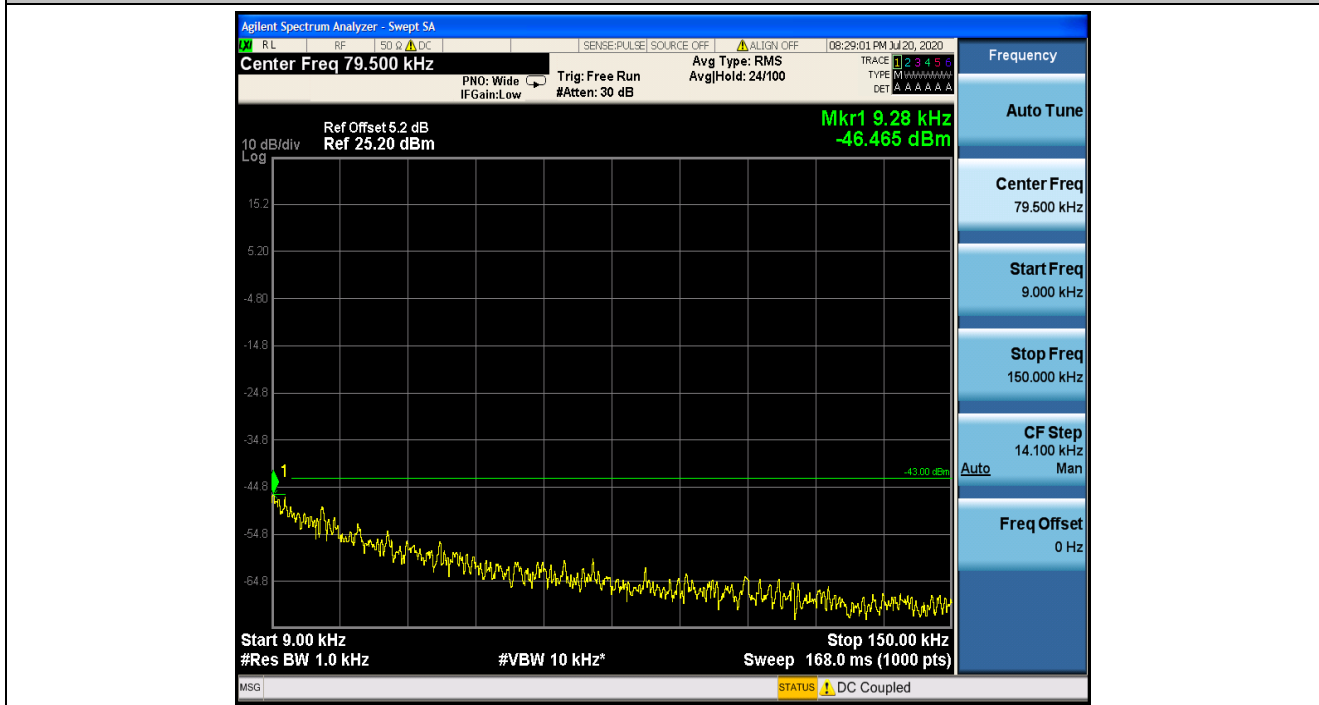


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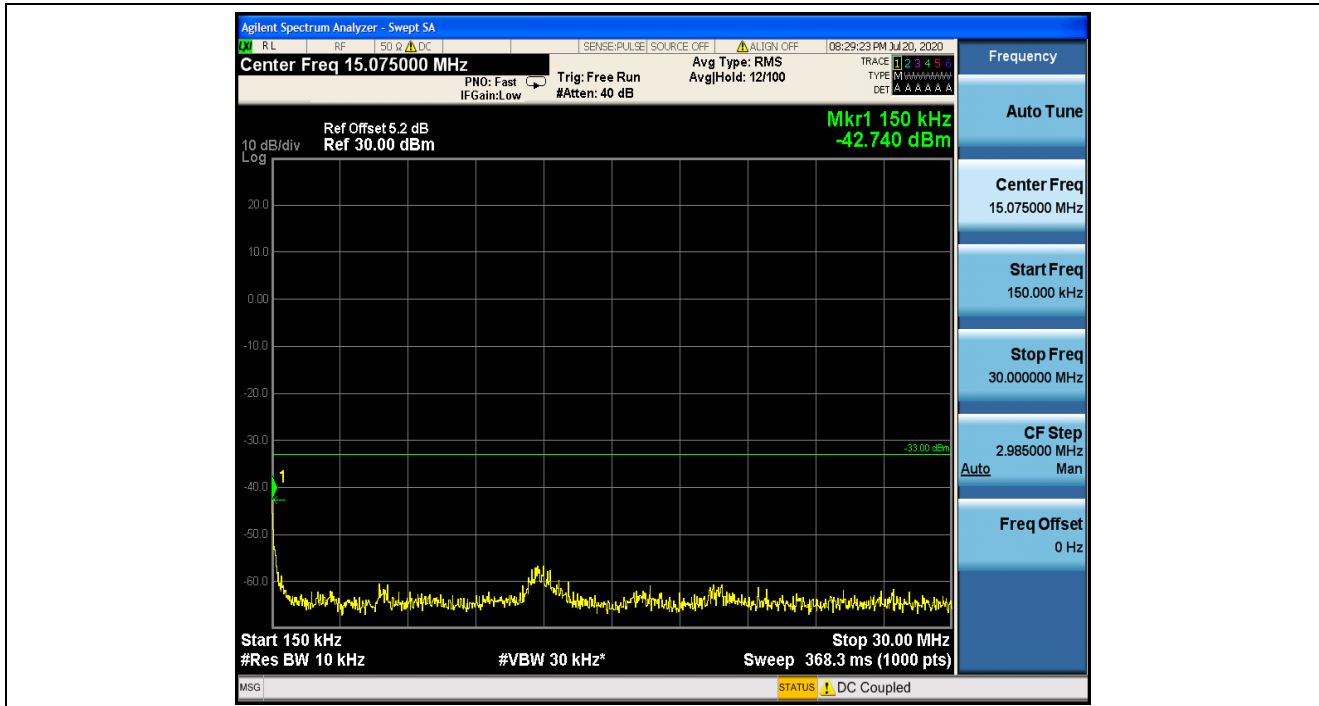
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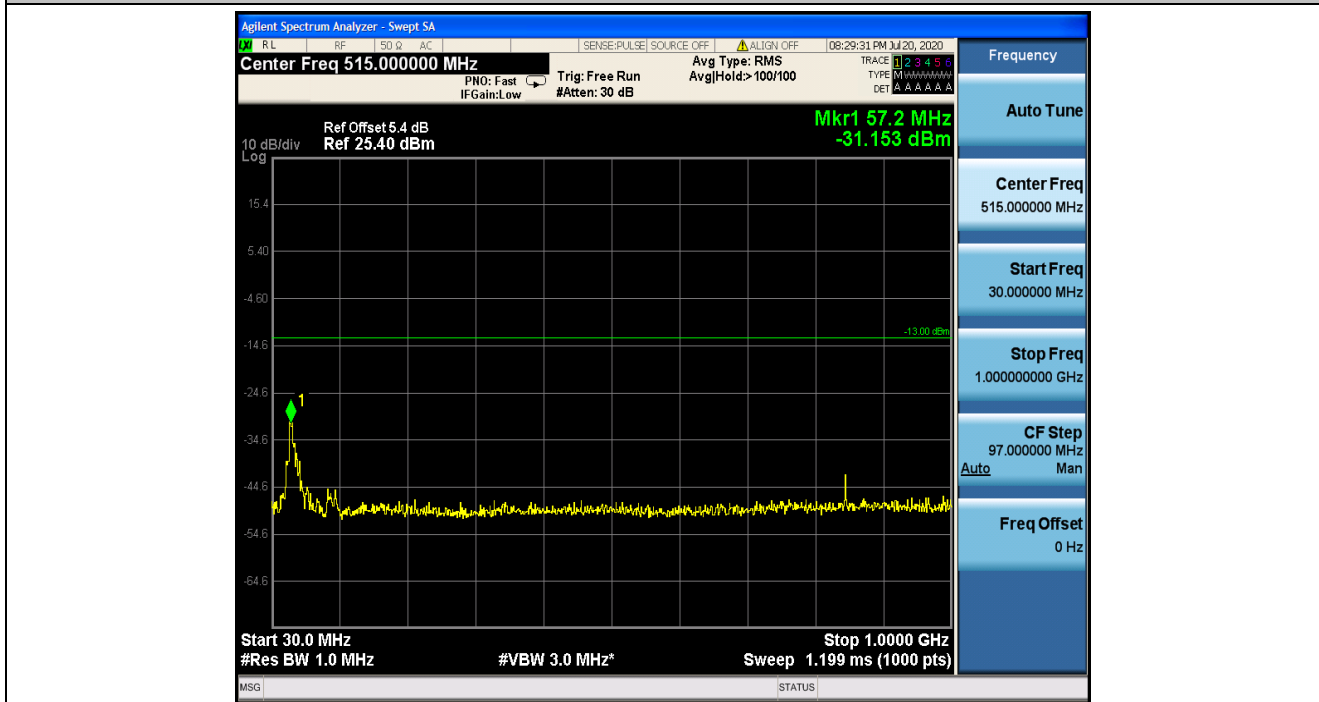
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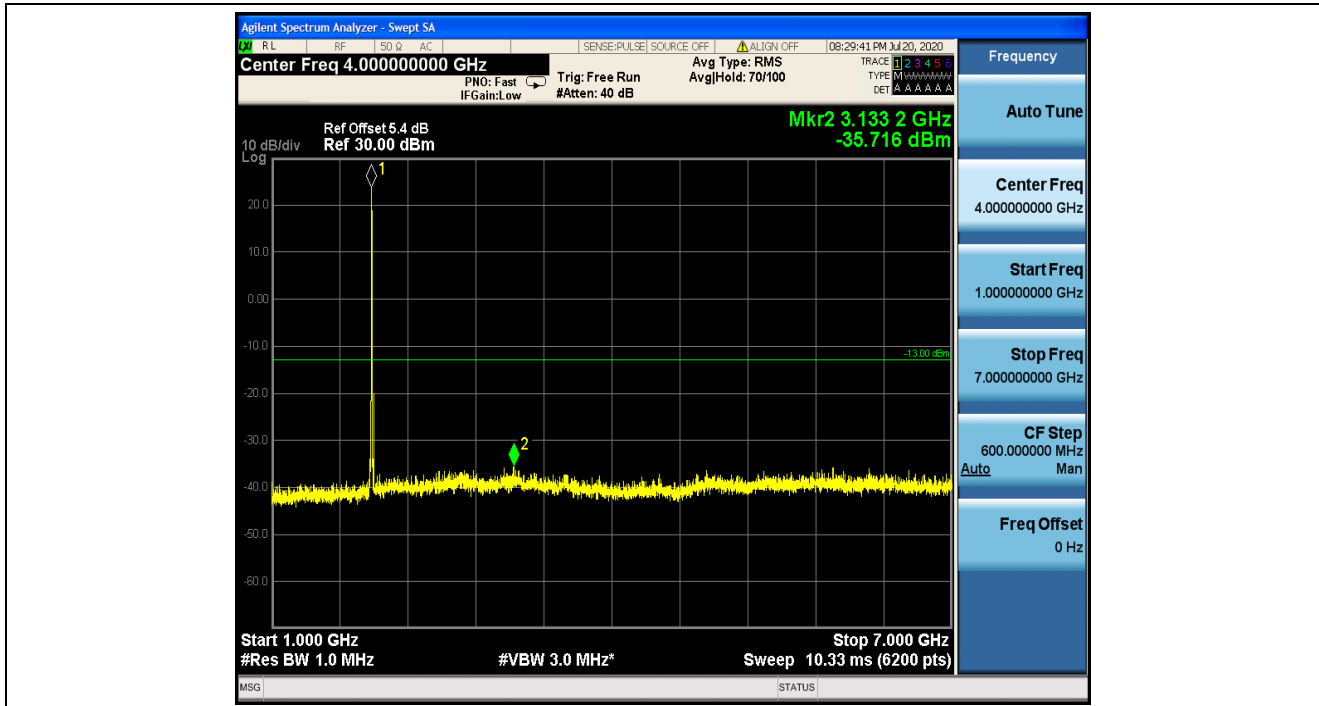


Band II_9400

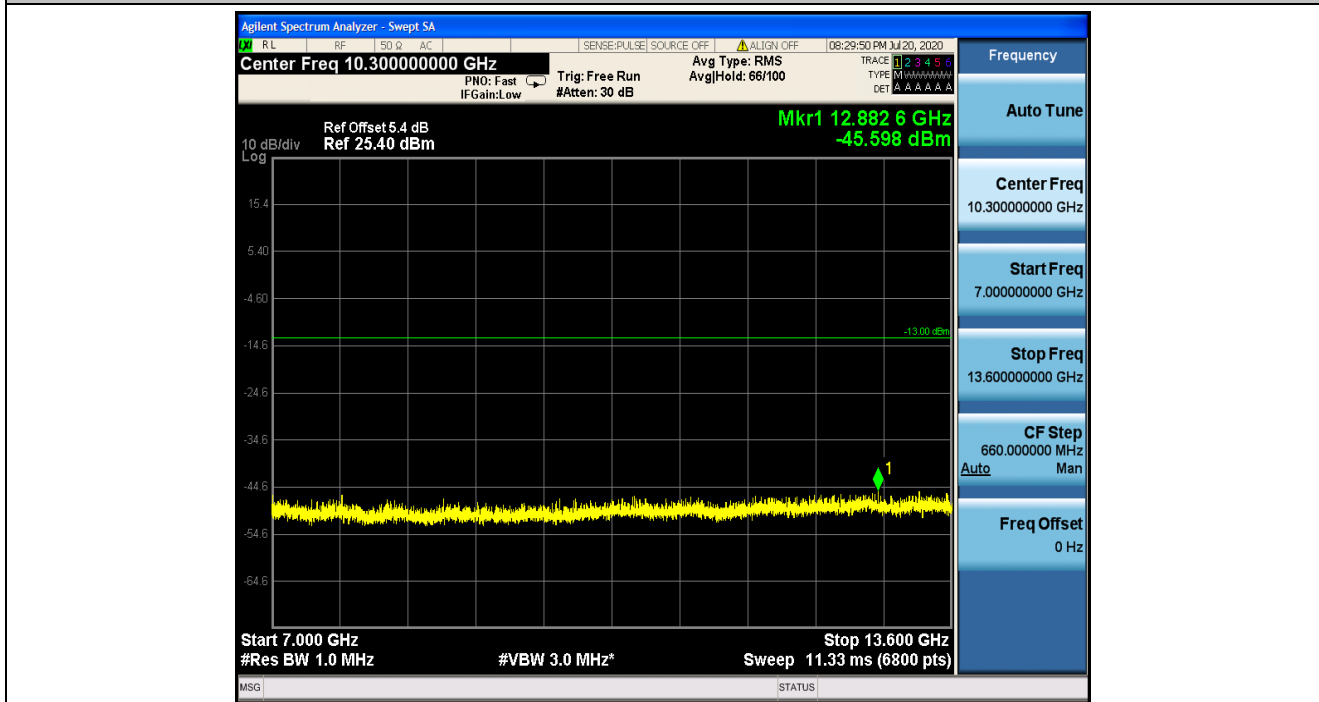


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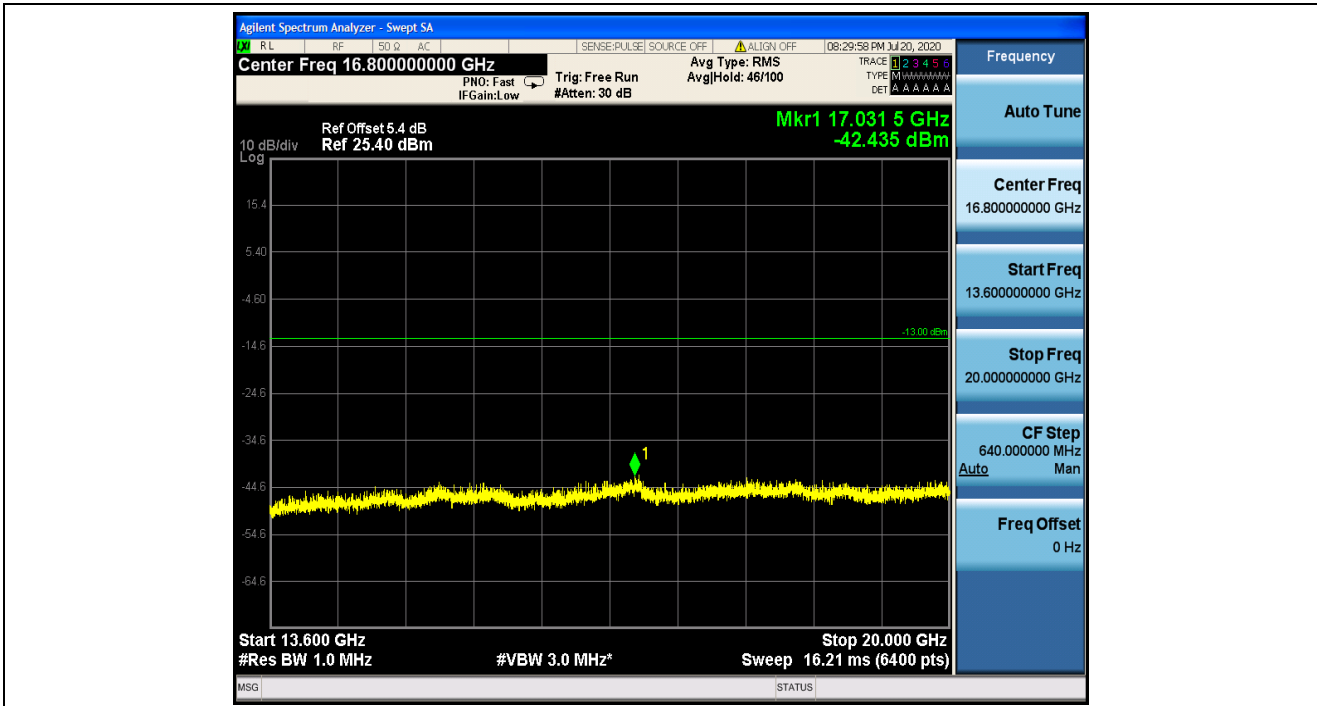
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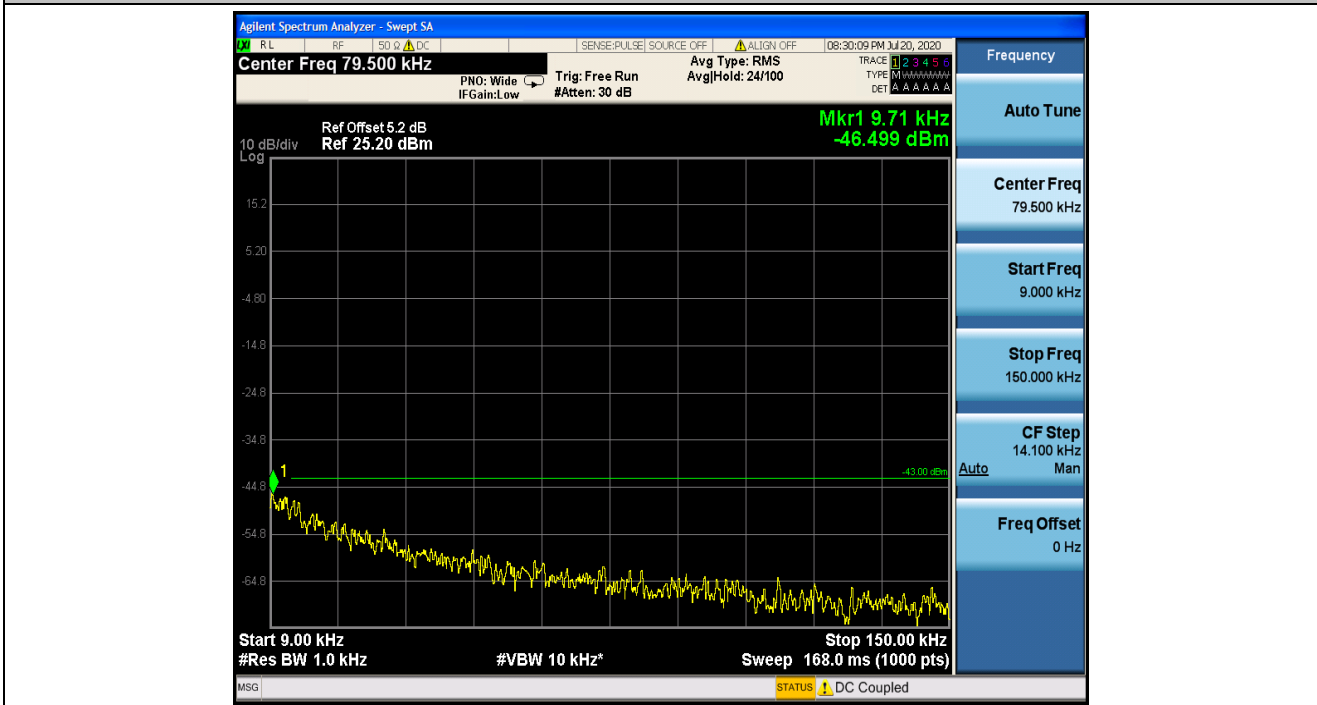
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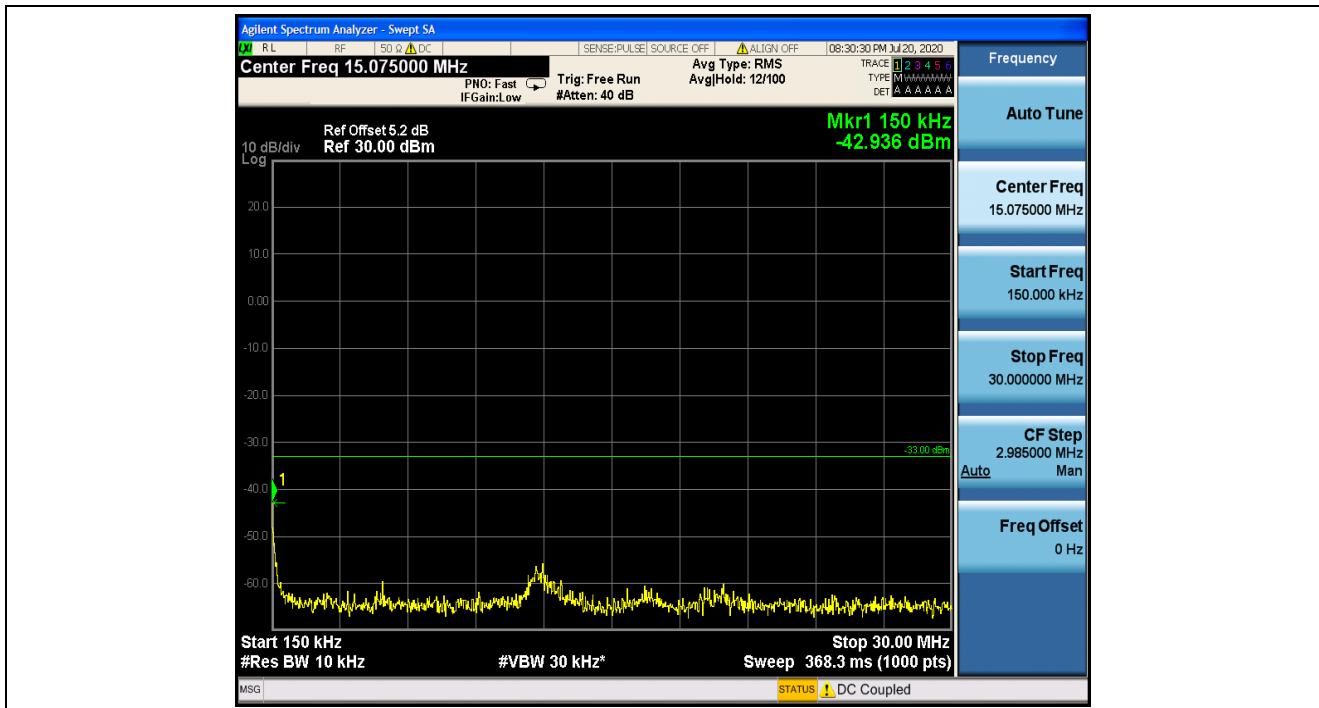


Band II_9538

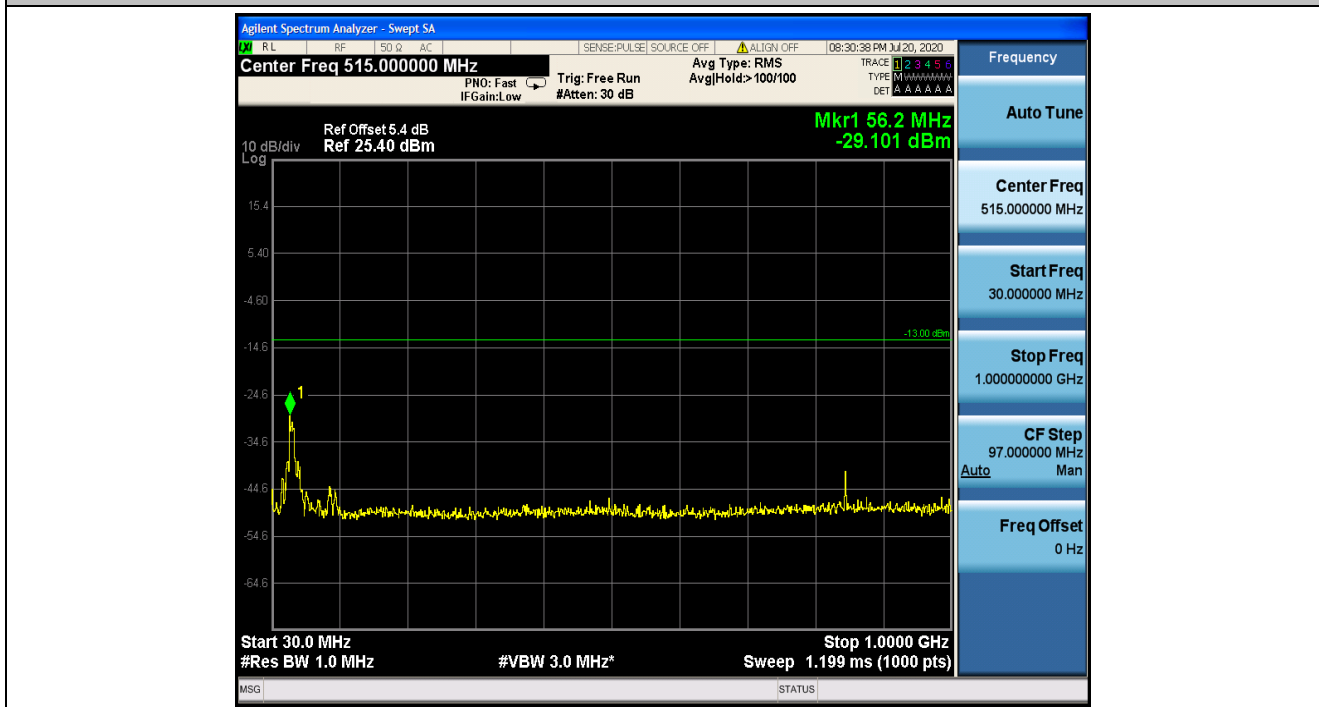


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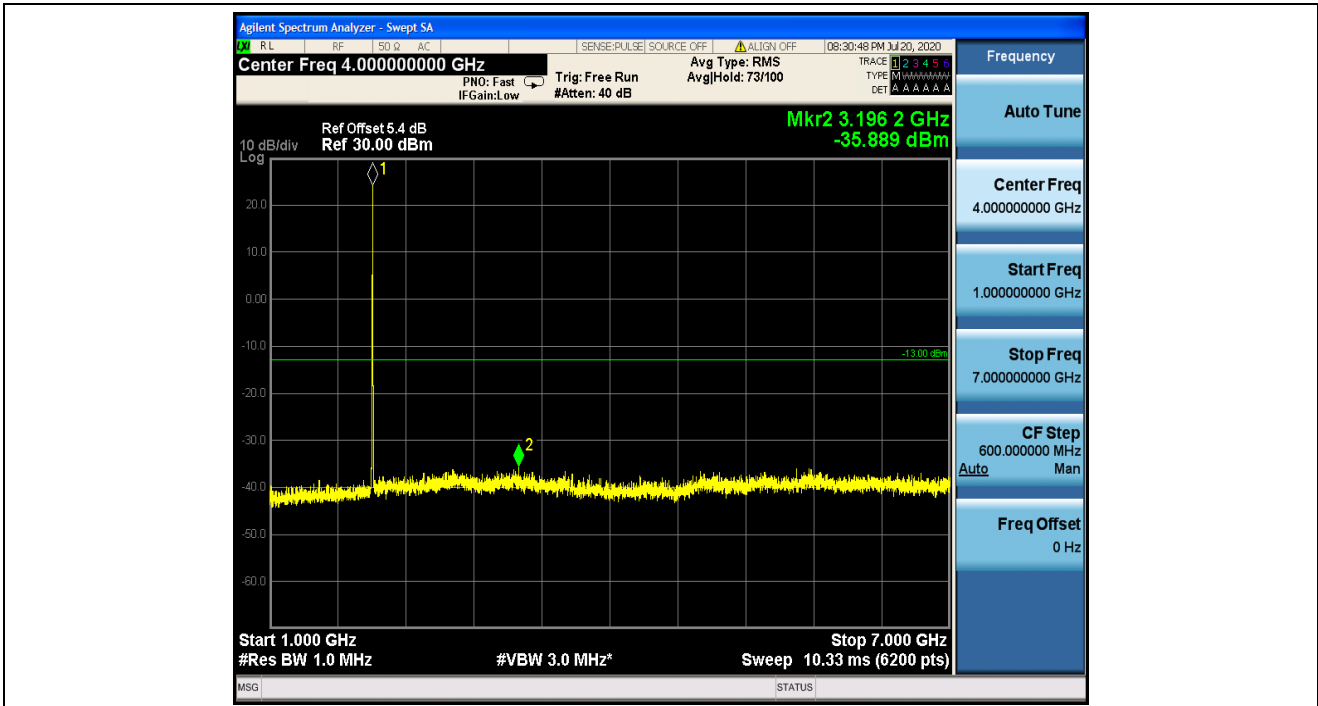
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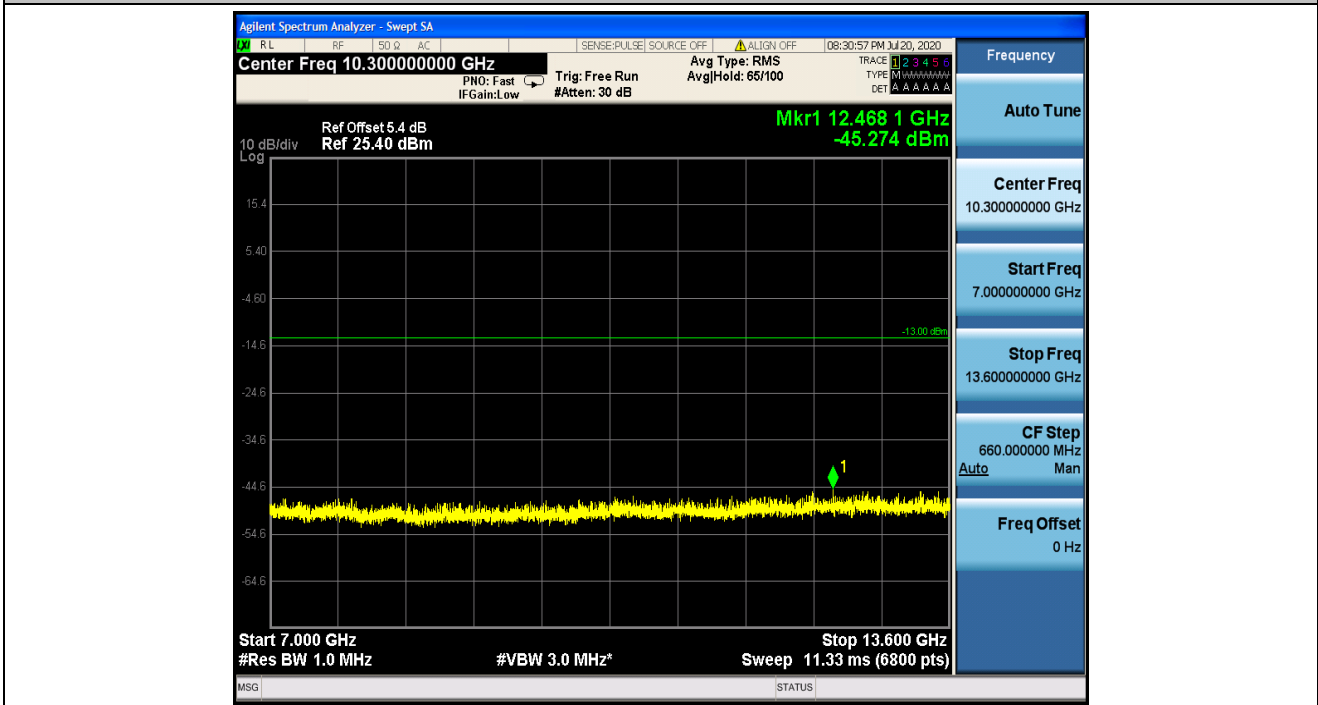
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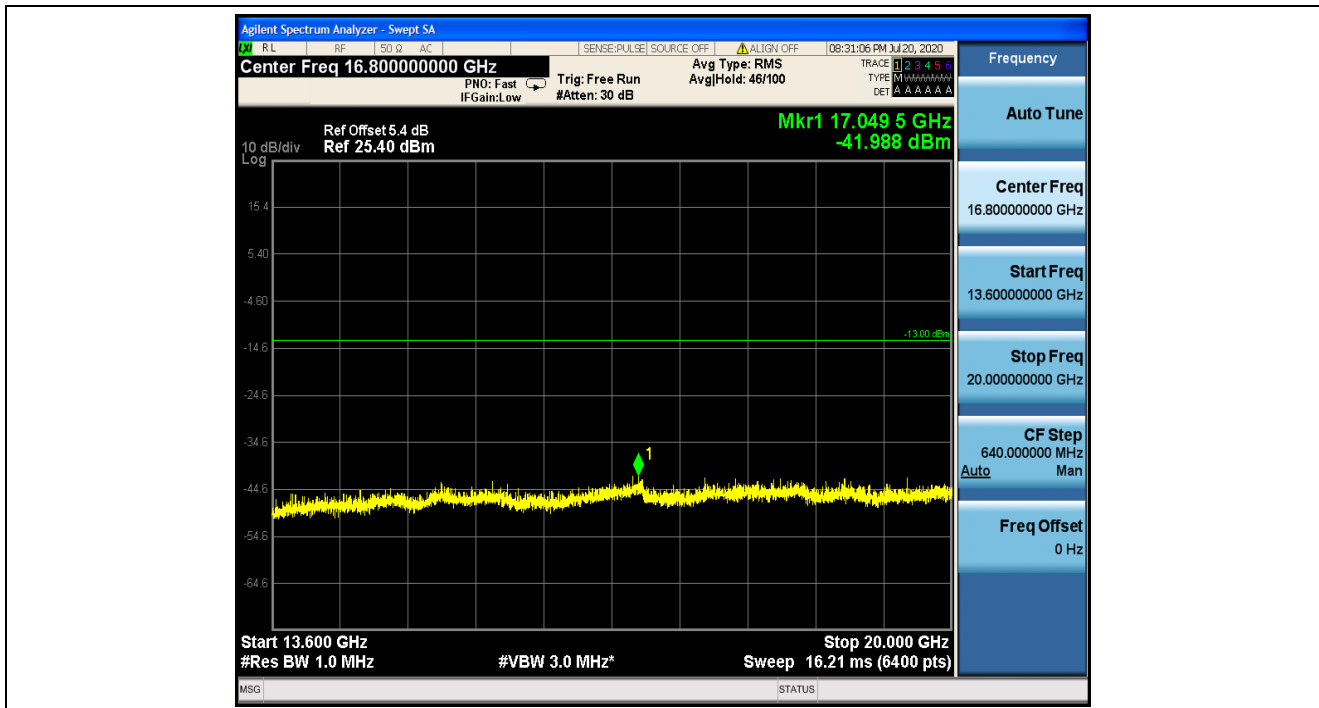
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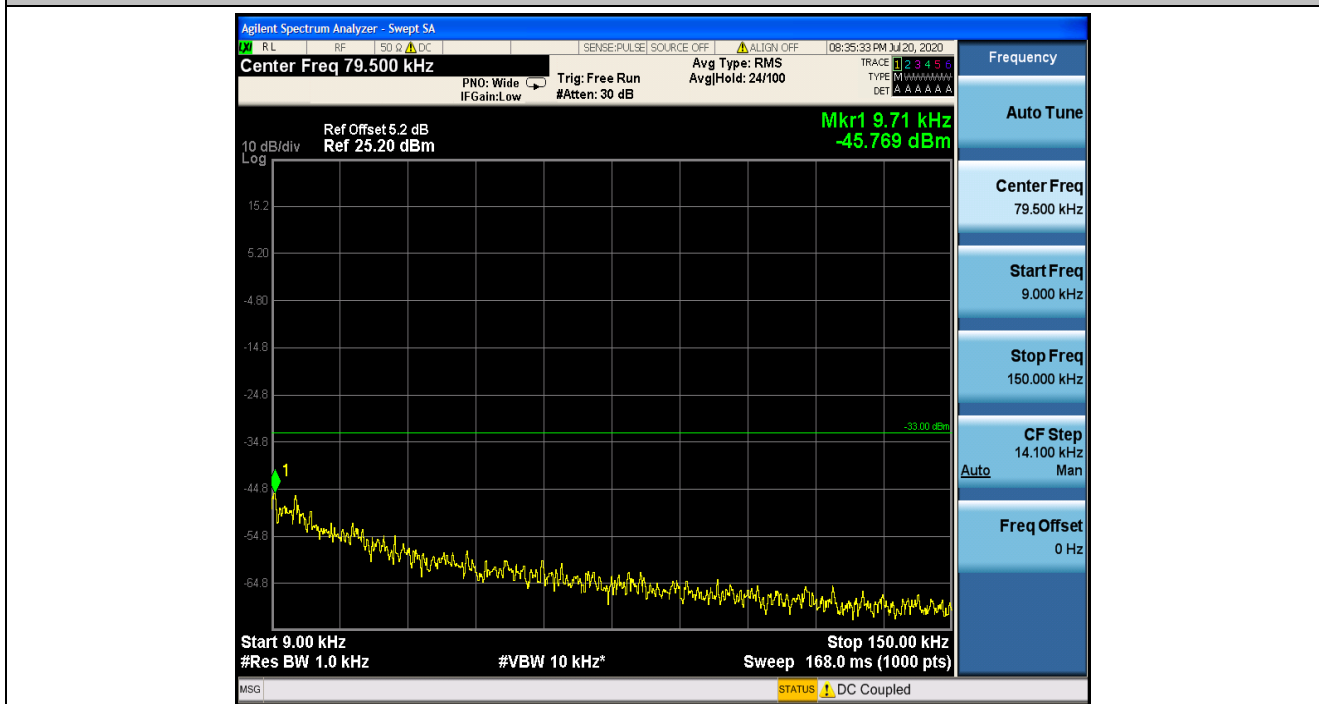
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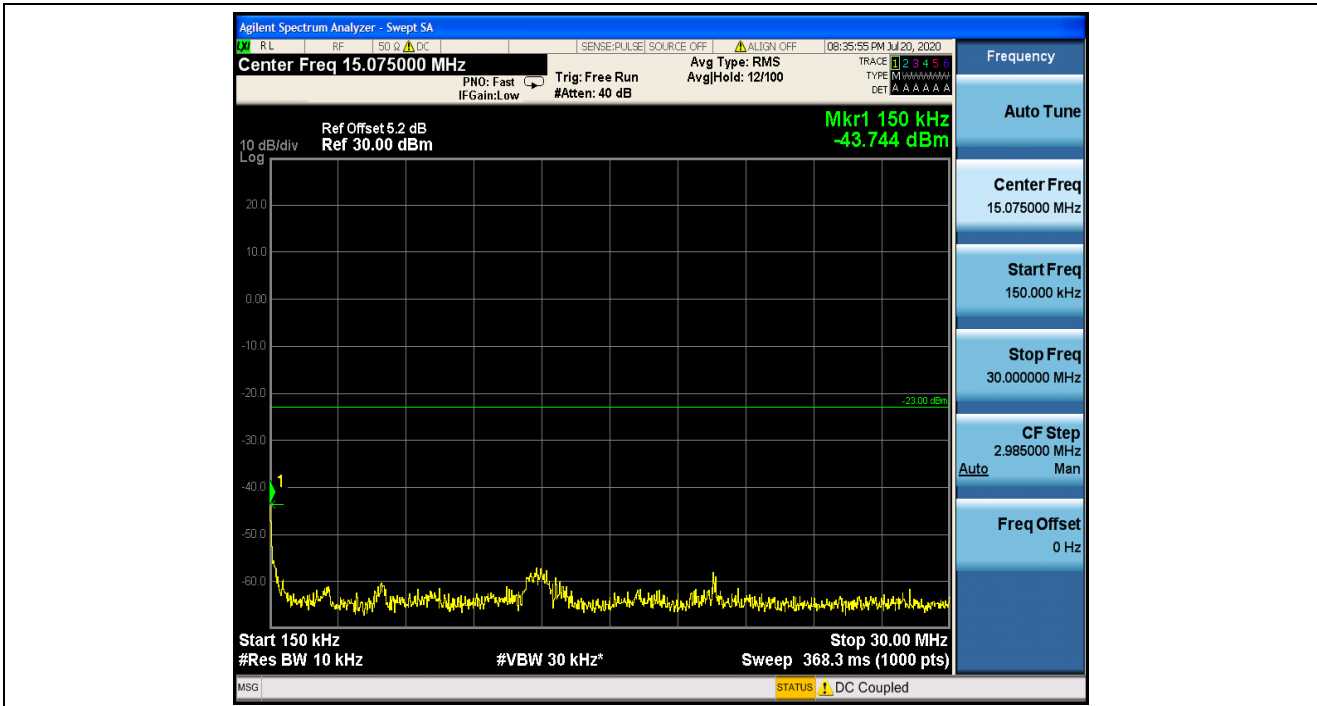


Band V_4132

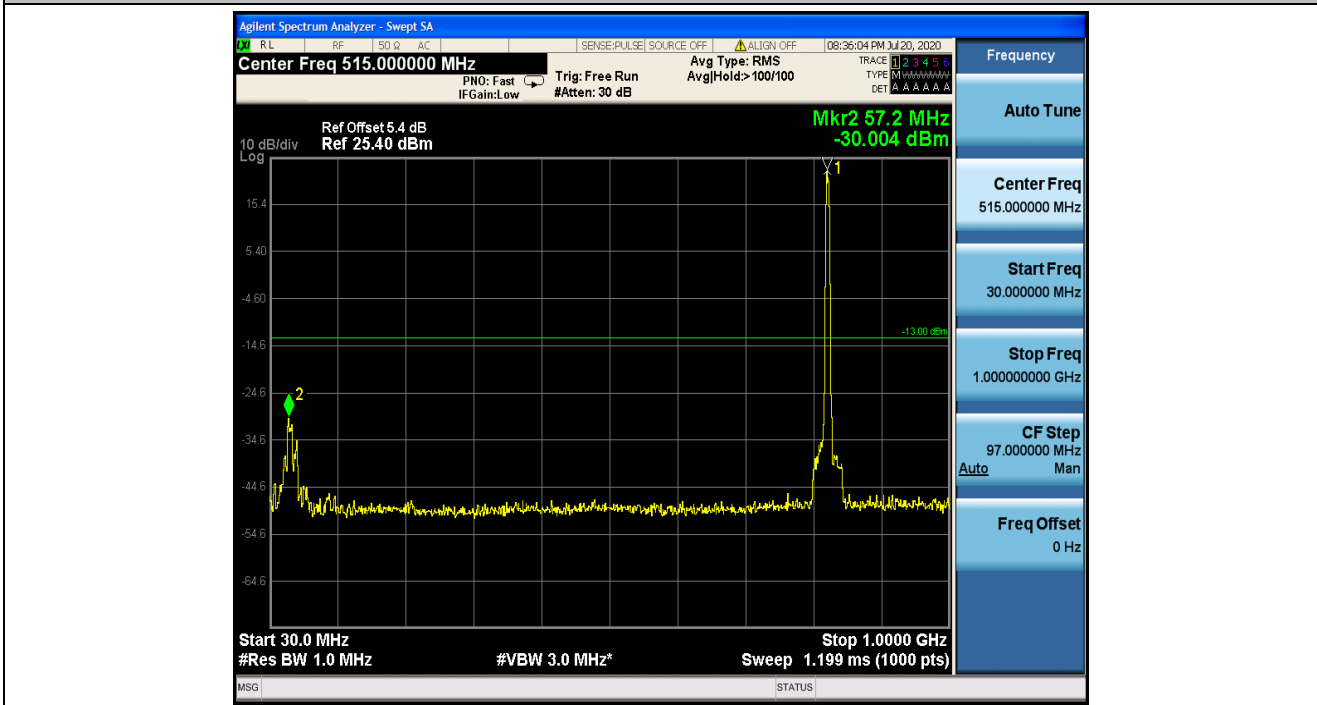


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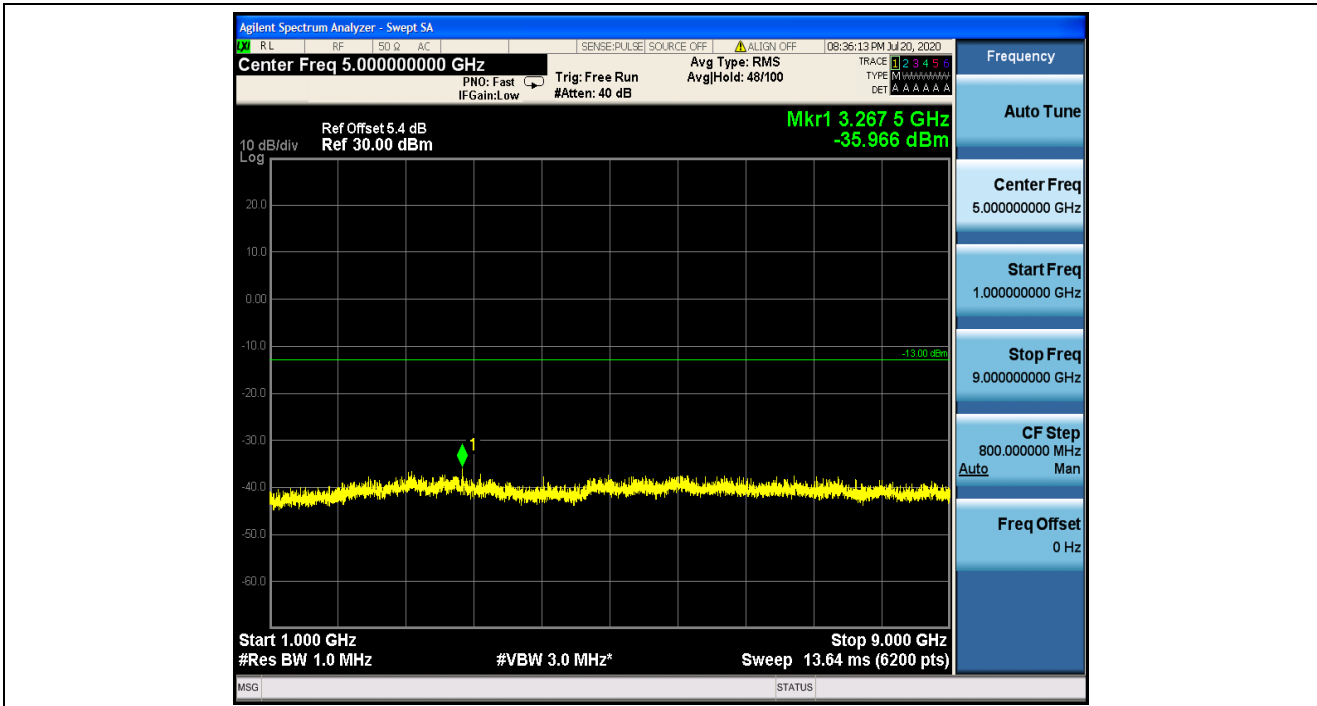
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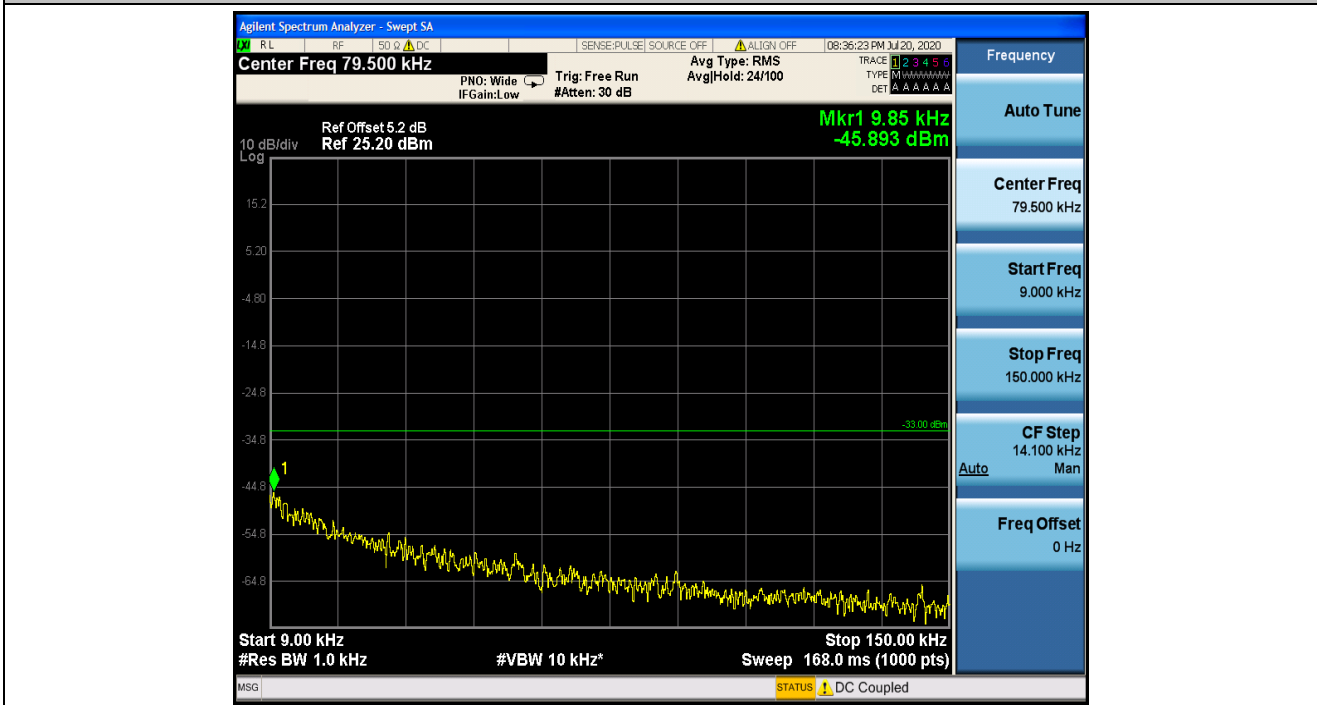
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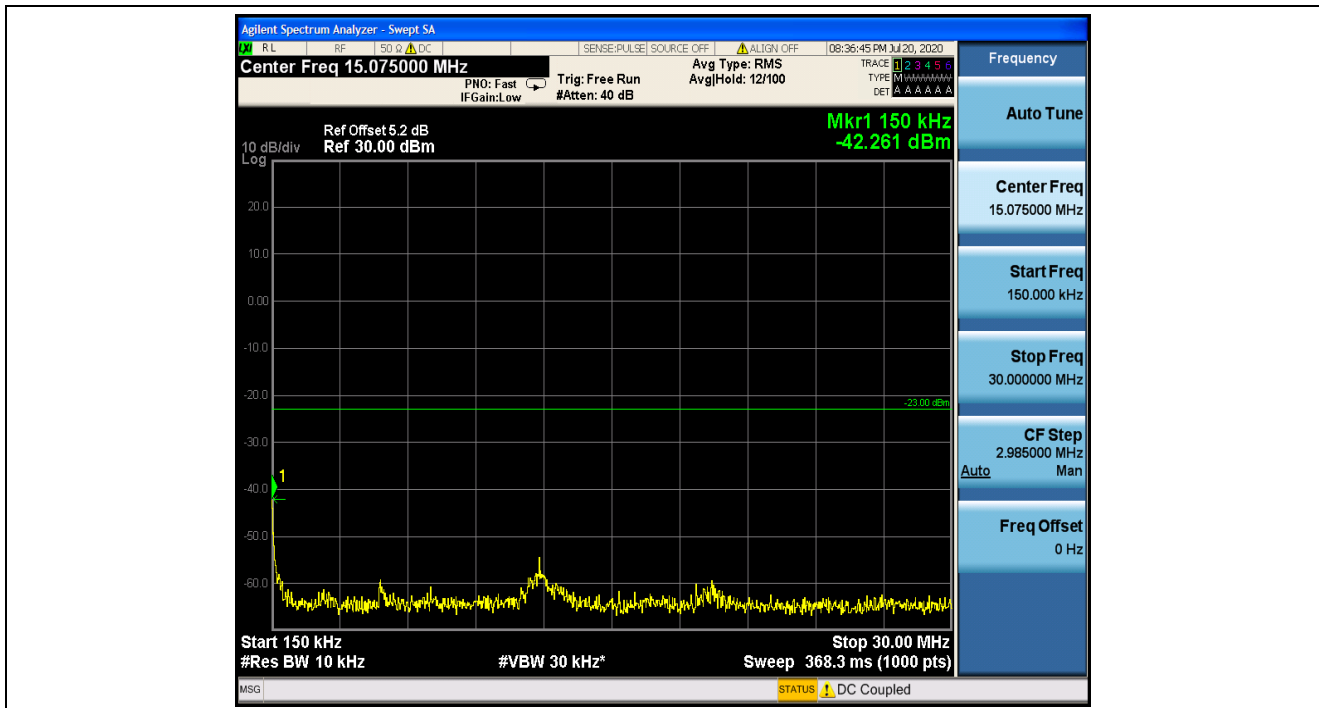
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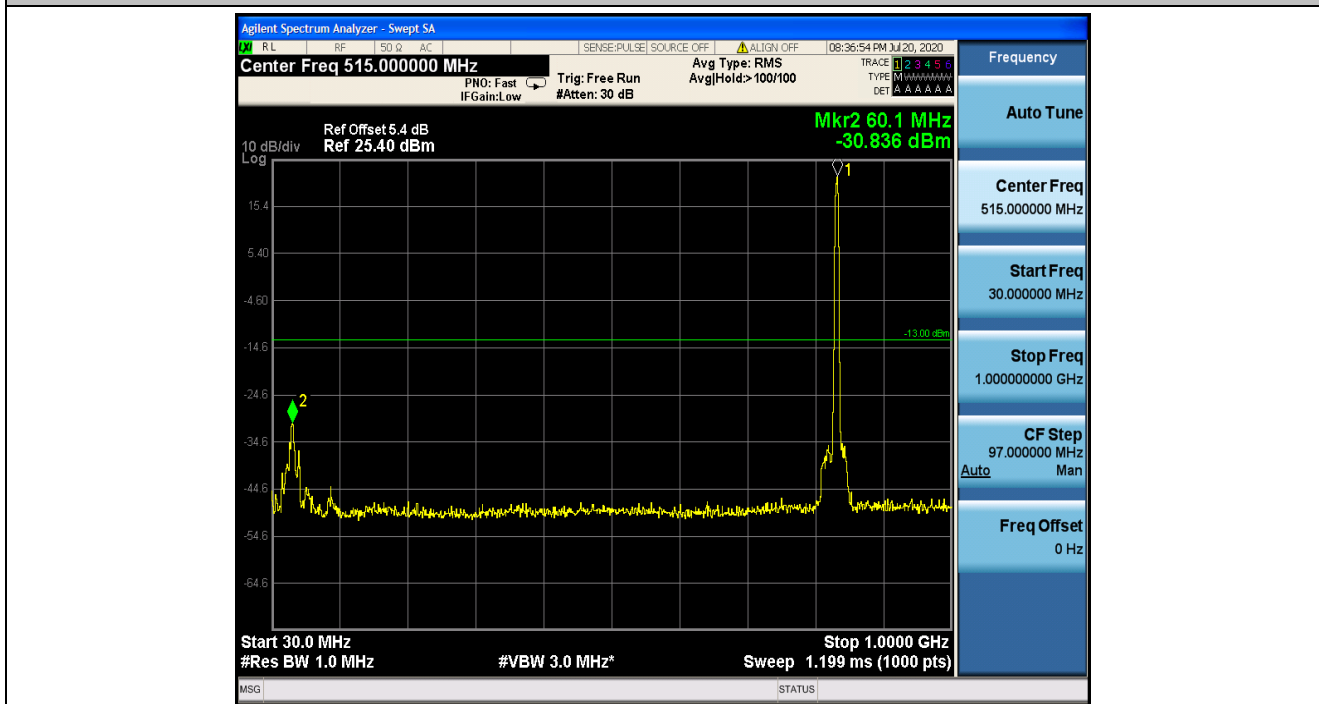
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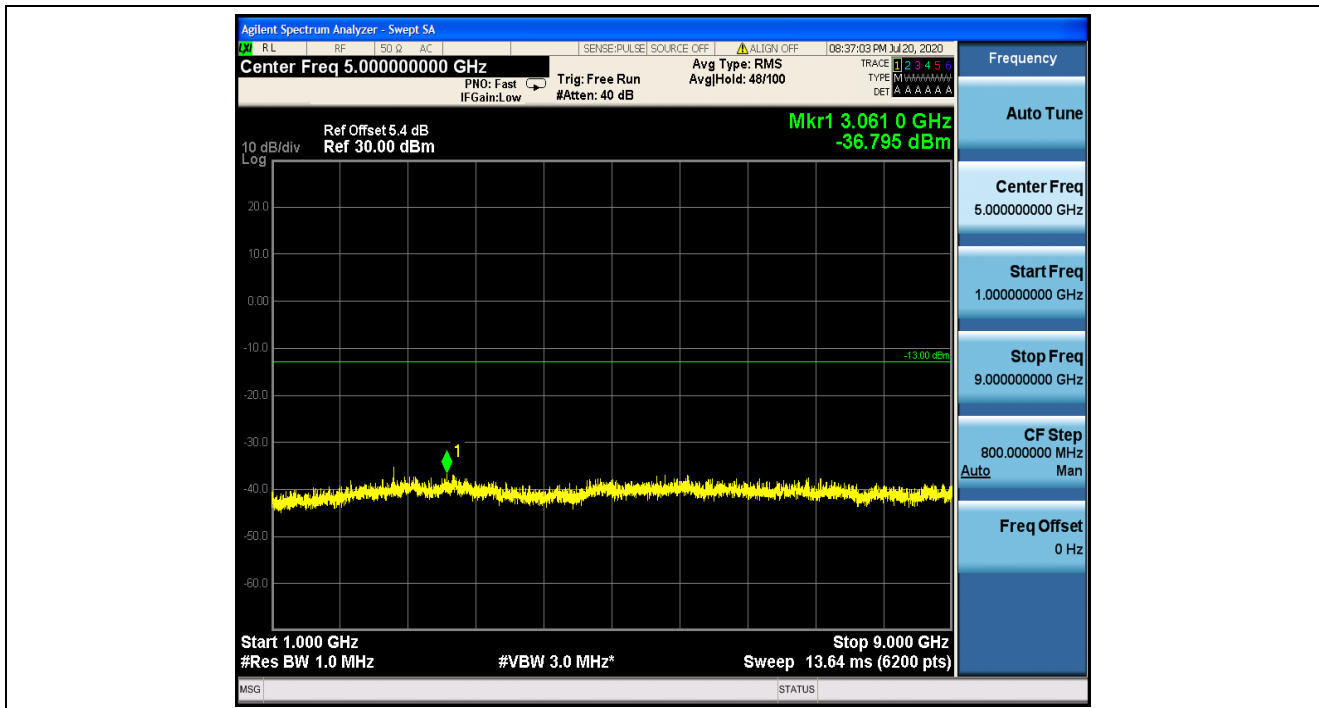
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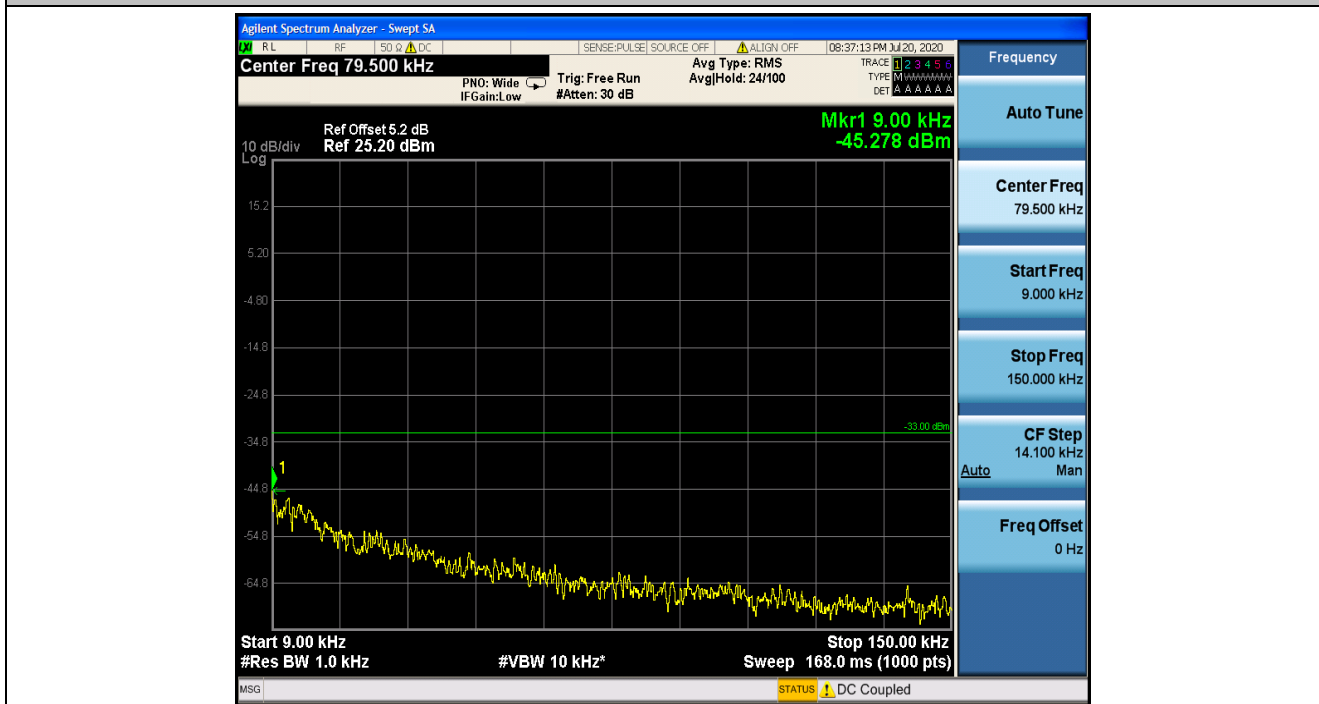
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Band V_4182



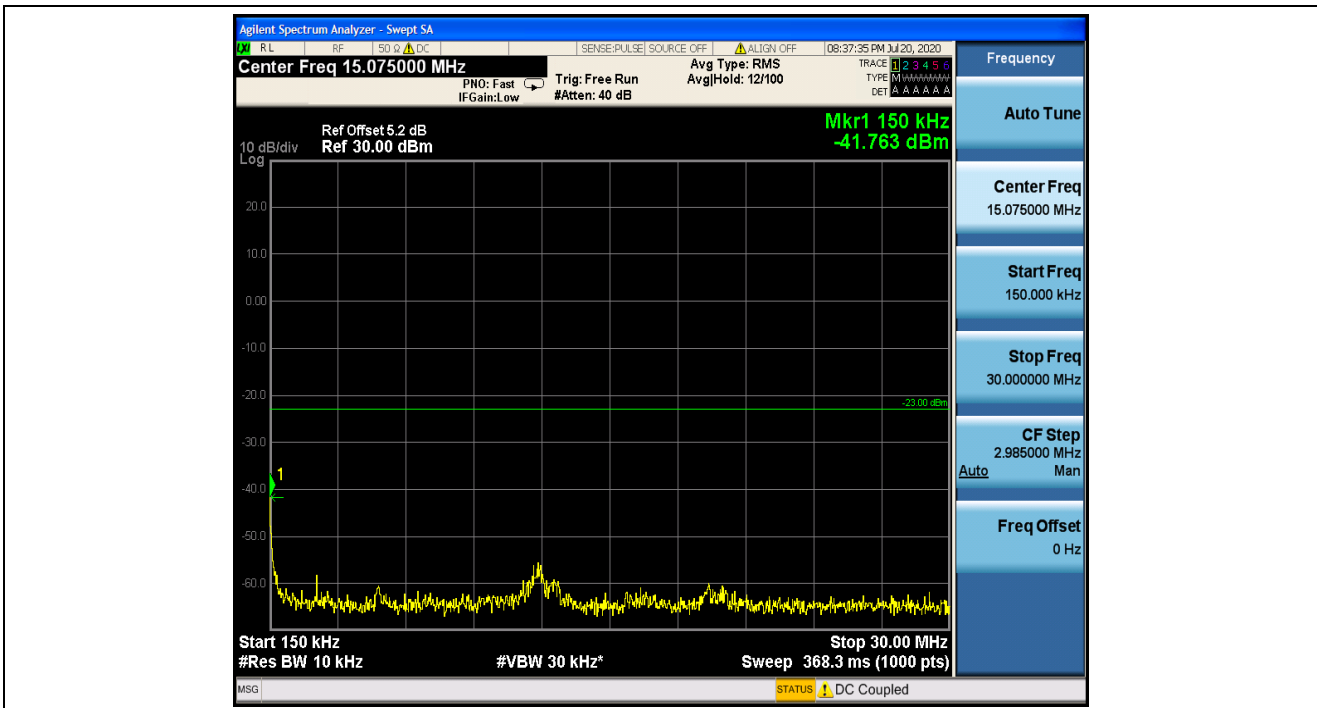
Band V_4233



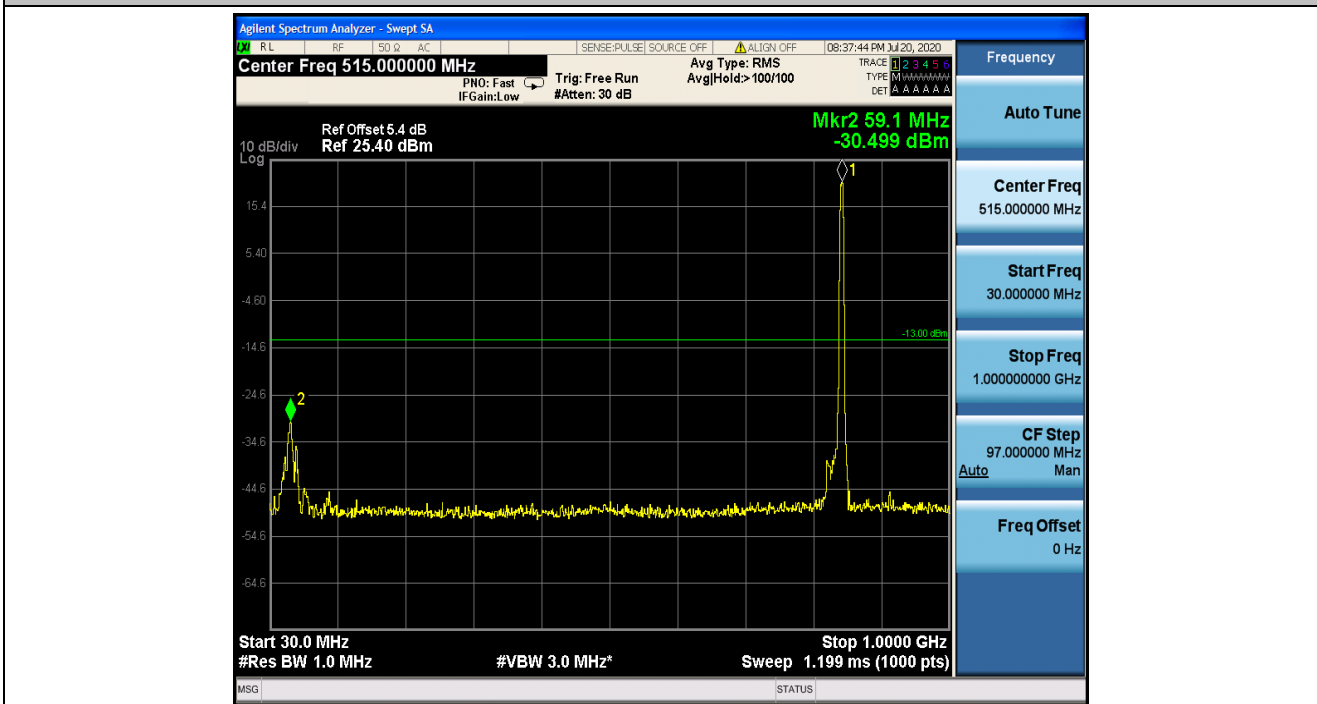
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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Band V_4233

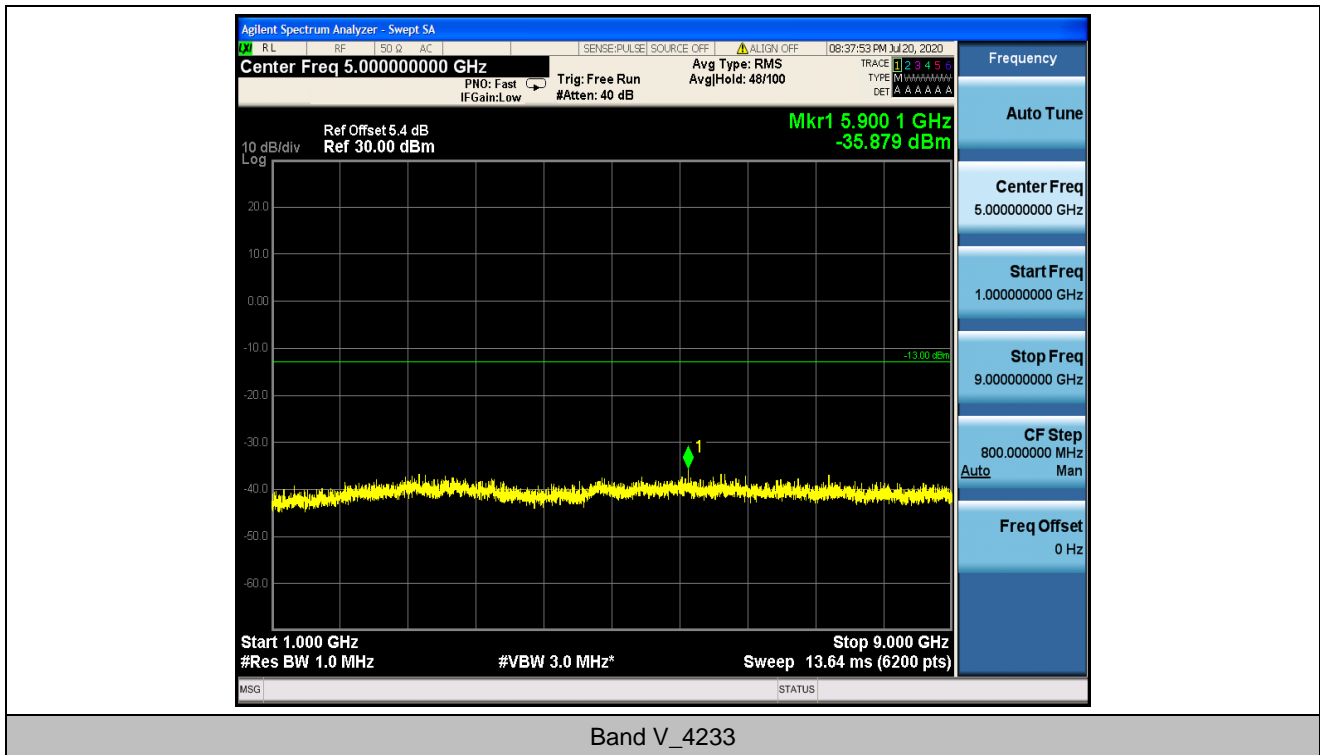


Band V_4233



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7. Field Strength of Spurious Radiation

7.1. Test Band = WCDMA Band II

7.1.1. Test Mode = WCDMA/TM1

7.1.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
46.3938	-72.70	-13.00	59.70	Vertical
111.7751	-64.58	-13.00	51.58	Vertical
312.6721	-69.10	-13.00	56.10	Vertical
3706.0235	-54.41	-13.00	41.41	Vertical
5560.0853	-58.35	-13.00	45.35	Vertical
7412.6471	-51.05	-13.00	38.05	Vertical
40.0885	-64.33	-13.00	51.33	Horizontal
239.0940	-68.07	-13.00	55.07	Horizontal
529.9145	-64.37	-13.00	51.37	Horizontal
3706.5236	-53.11	-13.00	40.11	Horizontal
5554.0851	-59.69	-13.00	46.69	Horizontal
16398.4466	-43.27	-13.00	30.27	Horizontal

7.1.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
53.0872	-72.71	-13.00	59.71	Vertical
117.5954	-64.67	-13.00	51.67	Vertical
341.5796	-67.48	-13.00	54.48	Vertical
3761.5254	-54.64	-13.00	41.64	Vertical
5636.0879	-59.10	-13.00	46.10	Vertical
7517.1506	-53.81	-13.00	40.81	Vertical
46.0543	-64.26	-13.00	51.26	Horizontal
241.7131	-67.98	-13.00	54.98	Horizontal



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538.1114	-64.84	-13.00	51.84	Horizontal
3761.5254	-52.10	-13.00	39.10	Horizontal
7478.1493	-56.16	-13.00	43.16	Horizontal
16391.9464	-43.35	-13.00	30.35	Horizontal

7.1.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.5465	-71.44	-13.00	58.44	Vertical
117.4014	-65.15	-13.00	52.15	Vertical
376.3073	-68.31	-13.00	55.31	Vertical
3816.5272	-53.57	-13.00	40.57	Vertical
5726.0909	-58.82	-13.00	45.82	Vertical
7627.1542	-54.52	-13.00	41.52	Vertical
46.2483	-63.19	-13.00	50.19	Horizontal
238.9484	-67.97	-13.00	54.97	Horizontal
594.9077	-62.37	-13.00	49.37	Horizontal
3817.0272	-51.61	-13.00	38.61	Horizontal
7387.6463	-56.44	-13.00	43.44	Horizontal
16402.4467	-43.13	-13.00	30.13	Horizontal

7.2. Test Band = WCDMA Band V

7.2.1. Test Mode = WCDMA/TM1

7.2.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.8860	-71.42	-13.00	58.42	Vertical
109.3500	-64.78	-13.00	51.78	Vertical
322.6151	-69.11	-13.00	56.11	Vertical
1654.5309	-57.27	-13.00	44.27	Vertical
2700.3401	-52.01	-13.00	39.01	Vertical
17999.5000	-39.59	-13.00	26.59	Vertical



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40.8645	-64.57	-13.00	51.57	Horizontal
103.1902	-75.66	-13.00	62.66	Horizontal
250.5405	-67.65	-13.00	54.65	Horizontal
1654.1308	-51.63	-13.00	38.63	Horizontal
2700.7401	-50.73	-13.00	37.73	Horizontal
16391.9464	-43.35	-13.00	30.35	Horizontal

7.2.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
47.8004	-71.98	-13.00	58.98	Vertical
110.7080	-64.46	-13.00	51.46	Vertical
368.2074	-68.16	-13.00	55.16	Vertical
1700.1400	-60.01	-13.00	47.01	Vertical
2575.5151	-52.00	-13.00	39.00	Vertical
17996.9999	-40.02	-13.00	27.02	Vertical
41.1556	-63.92	-13.00	50.92	Horizontal
102.3656	-75.35	-13.00	62.35	Horizontal
234.5832	-68.06	-13.00	55.06	Horizontal
1670.9342	-57.40	-13.00	44.40	Horizontal
2697.9396	-50.78	-13.00	37.78	Horizontal
16406.4469	-43.43	-13.00	30.43	Horizontal

7.2.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
50.6620	-71.48	-13.00	58.48	Vertical
112.4541	-63.92	-13.00	50.92	Vertical
329.6480	-67.93	-13.00	54.93	Vertical
1695.3391	-58.49	-13.00	45.49	Vertical
2701.1402	-51.87	-13.00	38.87	Vertical
17996.4999	-39.45	-13.00	26.45	Vertical
40.3795	-64.44	-13.00	51.44	Horizontal



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103.2872	-75.89	-13.00	62.89	Horizontal
240.3065	-68.60	-13.00	55.60	Horizontal
1694.5389	-53.43	-13.00	40.43	Horizontal
2694.3389	-50.73	-13.00	37.73	Horizontal
16396.4465	-43.46	-13.00	30.46	Horizontal

Remark:

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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8. Frequency Stability

8.1. Frequency Vs Voltage

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VL	TN	1.11	0.000598	2.5	PASS
Band II	9262	VN	TN	1.10	0.000595	2.5	PASS
Band II	9262	VH	TN	0.36	0.000197	2.5	PASS
Band II	9400	VL	TN	0.23	0.000122	2.5	PASS
Band II	9400	VN	TN	0.04	0.000023	2.5	PASS
Band II	9400	VH	TN	-0.72	-0.000380	2.5	PASS
Band II	9538	VL	TN	-3.17	-0.001661	2.5	PASS
Band II	9538	VN	TN	-2.41	-0.001264	2.5	PASS
Band II	9538	VH	TN	-4.09	-0.002145	2.5	PASS
Band V	4132	VL	TN	1.04	0.001255	2.5	PASS
Band V	4132	VN	TN	1.21	0.001463	2.5	PASS
Band V	4132	VH	TN	2.02	0.002449	2.5	PASS
Band V	4182	VL	TN	0.64	0.000761	2.5	PASS
Band V	4182	VN	TN	-0.25	-0.000299	2.5	PASS
Band V	4182	VH	TN	-0.09	-0.000103	2.5	PASS
Band V	4233	VL	TN	-1.07	-0.001259	2.5	PASS
Band V	4233	VN	TN	-0.82	-0.000963	2.5	PASS
Band V	4233	VH	TN	-0.42	-0.000498	2.5	PASS

8.2. Frequency Vs Temperature

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band II	9262	VN	-30	1.58	0.000853	2.5	PASS
Band II	9262	VN	-20	1.47	0.000795	2.5	PASS
Band II	9262	VN	-10	1.30	0.000703	2.5	PASS
Band II	9262	VN	0	1.57	0.000849	2.5	PASS
Band II	9262	VN	10	1.67	0.000904	2.5	PASS
Band II	9262	VN	20	1.22	0.000656	2.5	PASS
Band II	9262	VN	30	1.85	0.000996	2.5	PASS
Band II	9262	VN	40	2.58	0.001394	2.5	PASS



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Band II	9262	VN	50	1.85	0.001000	2.5	PASS
Band II	9400	VN	-30	-1.82	-0.000966	2.5	PASS
Band II	9400	VN	-20	-1.78	-0.000947	2.5	PASS
Band II	9400	VN	-10	-1.09	-0.000582	2.5	PASS
Band II	9400	VN	0	-0.22	-0.000118	2.5	PASS
Band II	9400	VN	10	-0.19	-0.000099	2.5	PASS
Band II	9400	VN	20	-0.29	-0.000152	2.5	PASS
Band II	9400	VN	30	-0.99	-0.000529	2.5	PASS
Band II	9400	VN	40	-1.07	-0.000571	2.5	PASS
Band II	9400	VN	50	-0.49	-0.000263	2.5	PASS
Band II	9538	VN	-30	-3.53	-0.001849	2.5	PASS
Band II	9538	VN	-20	-3.95	-0.002070	2.5	PASS
Band II	9538	VN	-10	-4.11	-0.002156	2.5	PASS
Band II	9538	VN	0	-3.41	-0.001789	2.5	PASS
Band II	9538	VN	10	-3.42	-0.001792	2.5	PASS
Band II	9538	VN	20	-4.11	-0.002156	2.5	PASS
Band II	9538	VN	30	-3.45	-0.001811	2.5	PASS
Band II	9538	VN	40	-3.06	-0.001605	2.5	PASS
Band II	9538	VN	50	-3.25	-0.001706	2.5	PASS
Band V	4132	VN	-30	1.39	0.001688	2.5	PASS
Band V	4132	VN	-20	1.12	0.001350	2.5	PASS
Band V	4132	VN	-10	1.32	0.001593	2.5	PASS
Band V	4132	VN	0	0.99	0.001194	2.5	PASS
Band V	4132	VN	10	1.52	0.001835	2.5	PASS
Band V	4132	VN	20	1.49	0.001800	2.5	PASS
Band V	4132	VN	30	1.52	0.001835	2.5	PASS
Band V	4132	VN	40	1.10	0.001333	2.5	PASS
Band V	4132	VN	50	1.57	0.001895	2.5	PASS
Band V	4182	VN	-30	-0.04	-0.000051	2.5	PASS
Band V	4182	VN	-20	-0.14	-0.000171	2.5	PASS
Band V	4182	VN	-10	0.36	0.000428	2.5	PASS
Band V	4182	VN	0	-0.21	-0.000248	2.5	PASS
Band V	4182	VN	10	0.02	0.000026	2.5	PASS
Band V	4182	VN	20	0.02	0.000026	2.5	PASS
Band V	4182	VN	30	-0.18	-0.000214	2.5	PASS
Band V	4182	VN	40	0.25	0.000299	2.5	PASS
Band V	4182	VN	50	-0.16	-0.000188	2.5	PASS
Band V	4233	VN	-30	-1.27	-0.001495	2.5	PASS



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Band V	4233	VN	-20	-0.62	-0.000727	2.5	PASS
Band V	4233	VN	-10	-1.17	-0.001377	2.5	PASS
Band V	4233	VN	0	-1.14	-0.001343	2.5	PASS
Band V	4233	VN	10	-1.72	-0.002028	2.5	PASS
Band V	4233	VN	20	-1.24	-0.001462	2.5	PASS
Band V	4233	VN	30	-1.46	-0.001724	2.5	PASS
Band V	4233	VN	40	-0.59	-0.000701	2.5	PASS
Band V	4233	VN	50	-1.03	-0.001217	2.5	PASS

The End



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